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WATER SUPPLY OUTLOOK FOR UTAH

in Cooperation with Utah State Department of Natural Resources

United States Department of Agriculture

Soil Conservation Service

Salt Lake City Utah

May 1, 1983

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent of surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1,900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

COVER PHOTO: FRESH POWDER SNOW ON ELEPHANT MOUNTIAN, NEAR THE WEST FORK OF HYALITE CREEK, IN MONTANA.

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 510, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	Room 129, 2221 East Northern Lights Blvd., Anchroage, Alaska 99504
Arizona	Room 3008, Federal Building, 230 N. First Ave., Phoenix, Arizona 85025
Colorado (N. Mexico)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th St., Boise, Idaho 83702
Montana	P. O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno, Nevada 89505
Oregon	1220 S. W. Third Ave., Portland, Oregon 97204
Utah	4418 Federal Bldg., 125 South State St., Salt Lake City, Utah 84147
Washington	360 U. S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82602

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Snow Surveys Branch, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 -- for British Columbia by the Ministry of the Environment, Water Inventigations Branch, Parliament Buildings, Victoria, British Columbia V8V 1X5 -- for Yukon Territory by the Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory Y1A 3V1 -- and for Alberta, Saskatchewan, and N.W.T. by the Water Survey of Canada, Inland Waters Branch, 110-12 Avenue S.W., Calgary, Alberta T3C 1A6.

WATER SUPPLY OUTLOOK FOR UTAH

and

FEDERAL-STATE-PRIVATE COOPERATIVE SNOW SURVEYS

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SALT LAKE CITY, UTAH

In Cooperation with

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Salt Lake City, Utah 84147

PROSPECTIVE WATER SUPPLIES

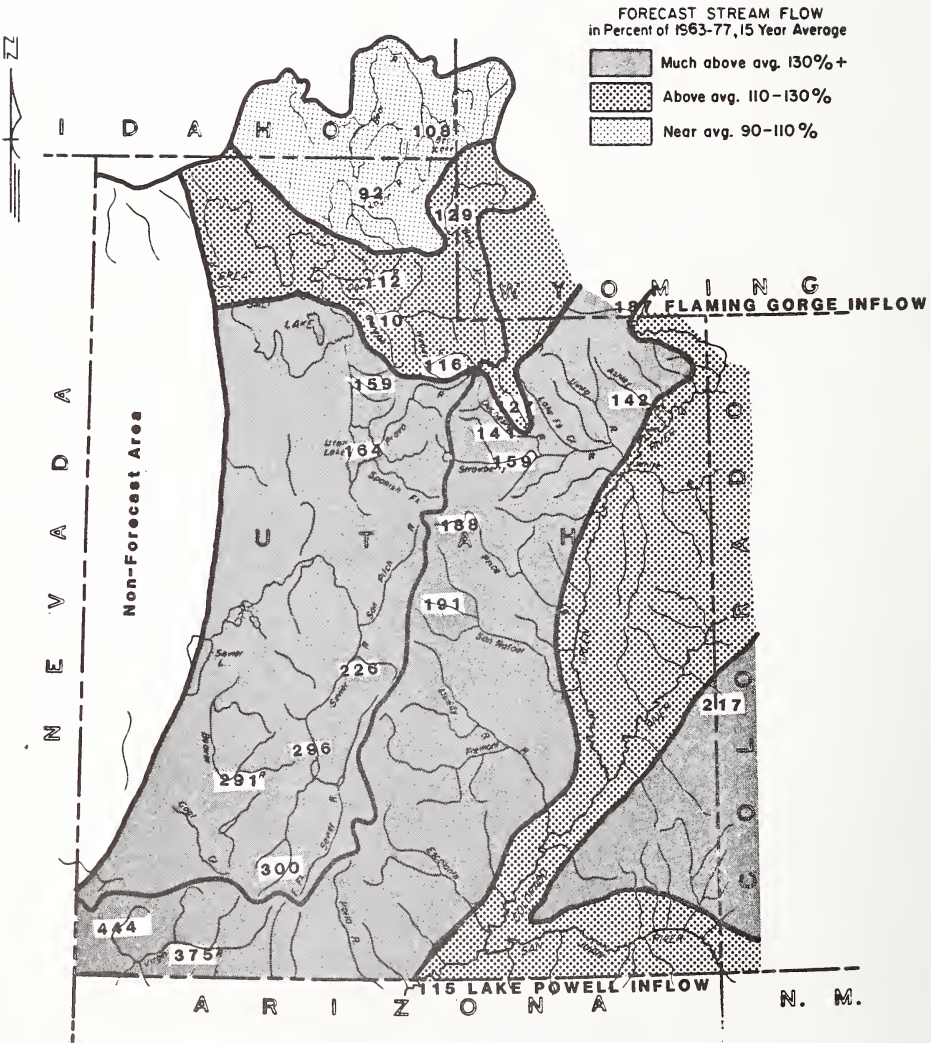
Based on Snow Surveys Made on UTAH and BEAR RIVER WATERSHEDS

May 1, 1983

Approximate Date

50 0 50 100

SCALE IN MILES



USDA SCS PORTLAND, OREG. 1970 M-2953

WATER SUPPLY OUTLOOK

As Of May 1, 1983

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* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
* Utah's 1983 water supply outlook ranges from near           *
* average in the north to well above average in the south.*
* Snow cover ranges from 104% on the Logan River drainage *
* to 524% of the May 1 average on the Enterprise to New   *
* Harmony drainages in the southwestern corner of the     *
* state.  Statewide snow cover this year is 145% of       *
* average.  This is just 6% less than the maximum         *
* statewide snowpack on record, which occurred in 1952.   *
* Precipitation during April, for the most part, was near *
* normal with some isolated areas much below or above     *
* average.  Soil moisture throughout the state is much    *
* higher than normal and reservoir storage is 122% of     *
* average.  Streamflow forecasts range from near average  *
* to over five times average.                             *
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
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SNOW COVER

Snow measurements taken the last week of April indicate even though precipitation during the month of April was generally near average snow cover as a percent of average increased substantially due to cooler than normal temperatures and less melt than usual. Snow now ranges from near normal on the Bear, Logan and Weber River drainages to nearly 1 1/2 times average on the Ogden River and Wasatch Front drainages. Provo River and Utah Lake drainages are now 1 3/4 times average. Uinta Mountain snowpack ranges from 129% of the May 1 average on Blacks Fork to 187% on the Duchesne. Southeastern Utah drainages have two to three times average snowpack ranging from 194% on the Price River to 310% on the Blue Mountains. The Sevier River and southwestern Utah snowpack ranges from 199% on Parowan Creek to 524% on the Enterprise to New Harmony drainages.

Many central and southern Utah snow courses had record snowpack measurements again this month.

PRECIPITATION

Precipitation at mountain stations was generally near average over the state during April. Seasonal totals (October 1, 1982 to May 1, 1983) now range from near normal in northern Utah to almost twice normal for some stations in the central and southern part of the state.

SOIL MOISTURE

Watershed soils throughout the state are much wetter than normal and will be able to absorb less snowmelt water than usual.

RESERVOIR STORAGE

Storage in 24 of Utah's key reservoirs is 122% of average and 92% of usable capacity. Many reservoirs are still holding storage down in order to provide space for snowmelt runoff.

WATER SUPPLY OUTLOOK (continued)

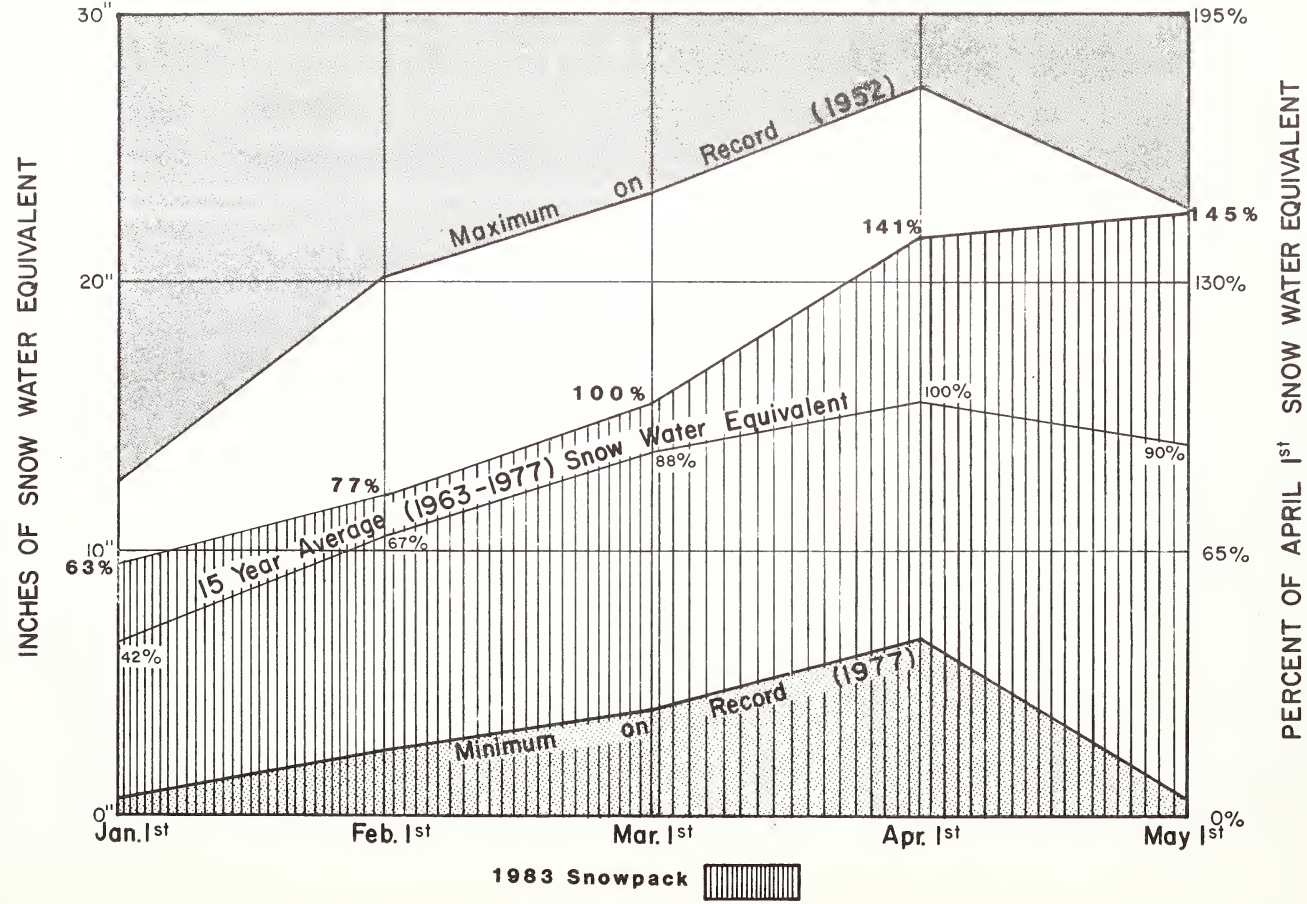
STREAMFLOW FORECASTS

Streamflow forecasts for the May-July period as a percent of average have generally increased and now range from slightly above normal for most streams in northern Utah to more than five times average in the southwestern part of the state. Streams in the Cache Valley area are forecast near average ranging from 90% for the Little Bear to 108% for Blacksmith Fork. Bear River and Weber Basin forecasts range from 108% of the May-September average for the Bear at Harer, Idaho to 135% of the May-June average for Chalk Creek near Coalville. Provo River-Utah Lake and Jordan River tributaries have forecasts ranging from 137% for Little Cottonwood Creek near Salt Lake City to 243% of the May-July average for the Spanish Fork River at Thistle. Uintah Mountain streams range from 87% of average for Flaming Gorge Inflow to 190% for the Duchesne at Randlett. Colorado River tributaries in southeastern Utah range from 111% of average for the Green at Green River to 217% for Mill Creek near Moab. The Sevier River and Beaver River forecasts range from 222% for Pleasant Creek near Mt. Pleasant to 548% for Minersville Reservoir Inflow. The Virgin River is forecast 375% and Lake Powell Inflow 115%. Peak flow forecasts for central and southern Utah are well above average and precautions should be taken to protect property near stream channels.

The Great Salt Lake is now forecast to rise to near 4,204 feet depending on the extent of May precipitation and evaporation. Utah Lake is forecast to peak at 2.90 feet above compromise provided weather and runoff conditions are normal throughout the remainder of the spring.

UTAH'S WINTER SNOWPACK

Data based on 79 selected snow courses

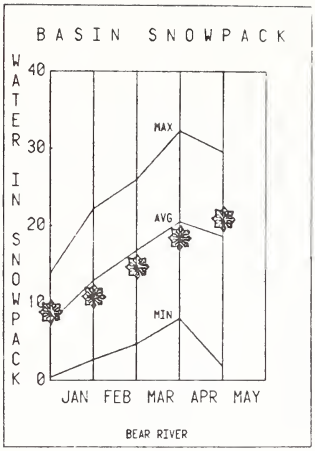


Soil Conservation Service, Salt Lake City, Utah

RESERVOIR STORAGE (Thousand Acre Feet) END OF MONTH

Basin or Stream	RESERVOIR	Usable Capacity	Usable Storage		
			This Year	Last Year	Average+
GREAT BASIN					
Bear River	Bear Lake	1421.0	1106.4	1003.7	1098.4
	Woodruff Narrows	57.3	57.4	56.8	25.7
	Woodruff Creek	---	3.5		
Beaver River	Minersville (RkyFd)	26.0	23.5	19.9	15.3
Little Bear	Hyrum	15.3	10.8	10.2	13.4
	Porcupine	11.3	11.9	11.9	8.7
Ogden	Causey	6.9	1.8	3.4	2.3[b]
	Pineview	110.1	83.3	78.3	76.9
Provo	Deer Creek	149.7	112.4	125.7	115.1
Settlement Creek	Settlement Creek	1.2	1.0	0.7	--
	Vernon Creek	0.6	0.6	0.6	--
Sevier River	Gunnison	18.2	17.1	18.2	14.9
	Otter Creek	52.5	34.5	54.2	39.5
	Piute	71.8	71.4	66.8	47.1
	Sevier Bridge	236.0	227.6	217.2	144.6
	Panguitch Lake	22.3	21.8		
Spanish Fork	Strawberry	270.0	263.4	193.0	166.0
Utah Lake	Utah Lake	883.9	1164.5	936.7	775.0
Weber	East Canyon	48.1	39.6	35.8	33.1
	Echo	73.9	40.2	20.7	55.2
	Lost Creek	20.0	15.2	13.0	13.9[b]
	Rockport	60.9	32.4	35.2	37.2
	Willard Bay	193.3	161.1	159.0	162.9
COLORADO RIVER BASIN					
Ashley Creek	Steinaker	33.3	27.2	25.5	23.7
	Red Fleet	26.0	20.7		
Colorado	Blue Mesa	829.5	434.6	237.7	--
	Lake Powell	25002.0	22782.0	19859.0	--
Green	Flaming Gorge	3749.0	3248.6	2636.4	--
Lakefork	Moon Lake	35.8	33.2	17.7	19.0
Price River	Scofield	65.8	37.6	43.2	36.9
San Juan	Navajo	1696.0	1316.8	1283.9	--
	Ken's Lake	2.3	1.6	1.2	--
San Rafael	Huntington North	3.9	3.6	3.3	3.9[b]
	Joe's Valley	54.6	33.9	31.9	39.1[b]
	Mill Site	16.7	15.5	8.5	--
Strawberry	Starvation	165.3	117.5	123.9	--
	Soldier Creek	951.4	41.4		
Uintah	Bottle Hollow	11.5	11.0	11.0	--

USDA-SCS PORTLAND, OREG. 1988


BASIN SNOWPACK
WATER IN SNOWPACK
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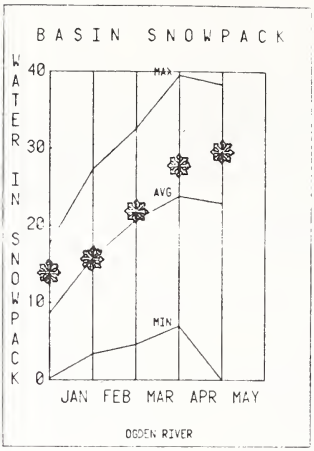
JAN FEB MAR APR MAY
BEAR RIVER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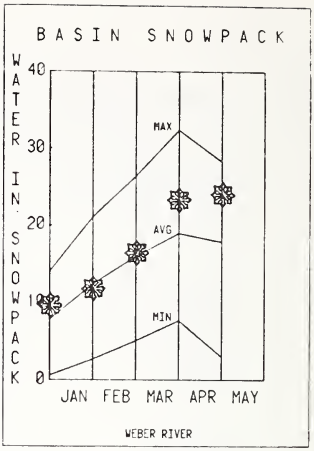
OGDEN RIVER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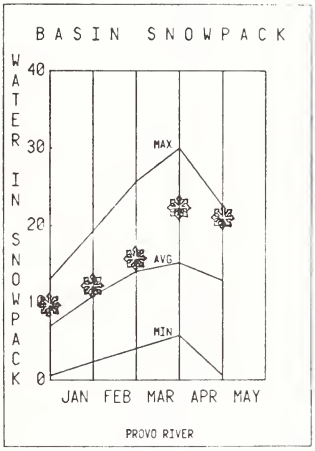
WEBER RIVER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WATER IN SNOWPACK
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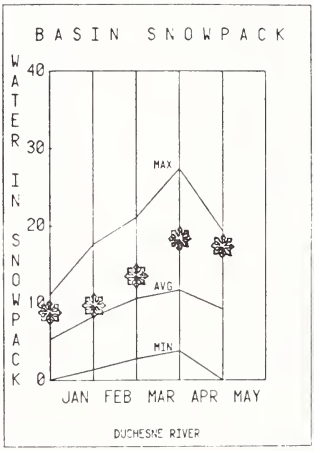
PROVO RIVER


BASIN SNOWPACK
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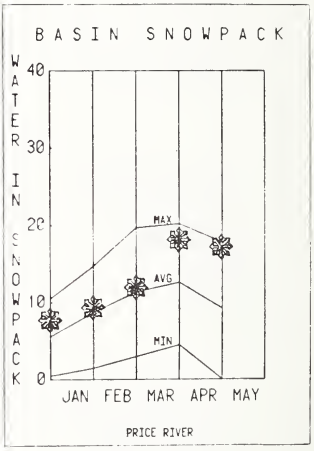
DUCHESNE RIVER


BASIN SNOWPACK
WATER IN SNOWPACK
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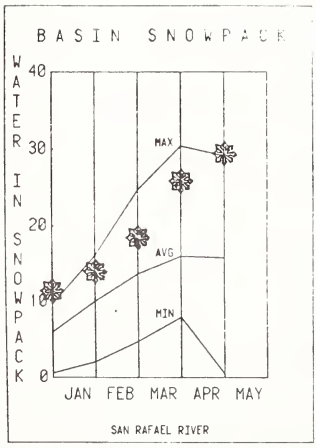
JAN FEB MAR APR MAY
PRICE RIVER


BASIN SNOWPACK
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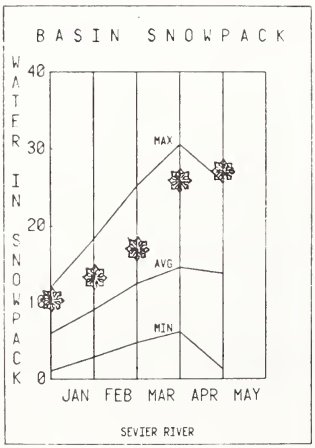
JAN FEB MAR APR MAY
SAN RAFAEL RIVER


BASIN SNOWPACK
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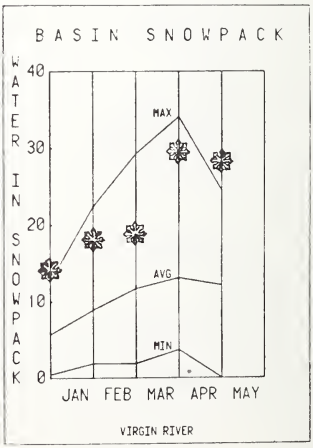
JAN FEB MAR APR MAY
SEVIER RIVER


BASIN SNOWPACK
WATER IN SNOWPACK
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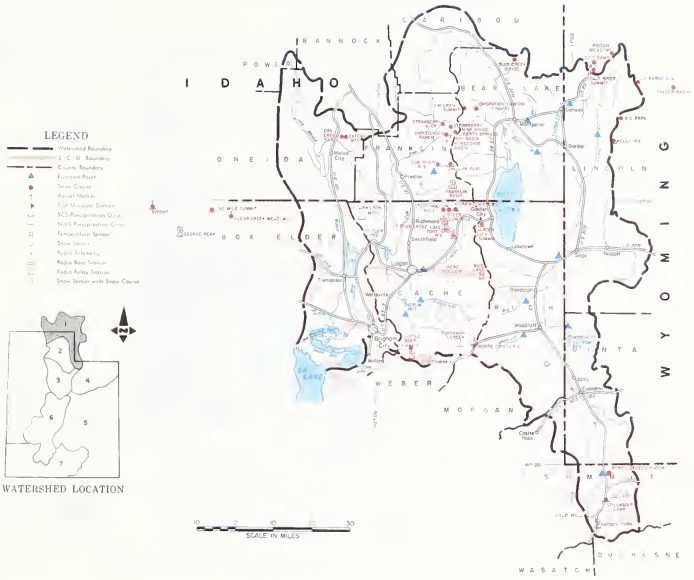
MAX
AVG
MIN
JAN FEB MAR APR MAY
VIRGIN RIVER

WATER SUPPLY OUTLOOK
BEAR RIVER BASIN in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE
UTAH STATE DEPARTMENT OF NATURAL RESOURCES



MAY 1, 1983

THE WATER SUPPLY OUTLOOK IS NEAR AVERAGE

SNOW COVER did not melt as much as usual on Bear River and now ranges from 104% of the May 1 average on Logan River to 110% on all of the Lower Bear. Upper Bear is now 106% of the 15 year average.

PRECIPITATION at mountain stations ranged from 99% of the April average at Stillwater Camp to 136% at Garden City Summit.

SOIL MOISTURE is above average.

RESERVOIR STORAGE is above average with Woodruff Narrows and Porcupine spilling and others releasing water to make room for runoff. Bear Lake is now 101% of average.

STREAMFLOW FORECASTS for the May-July period now range from 90% for Little Bear near Paradise to 131% for Big Creek near Randolph. Bear River is forecast 124% at the Utah-Wyoming line, 129% at Woodruff, 127% at Randolph and 108% at Harer, Idaho. Woodruff Creek is forecast 96%, Thomas Fork 105%, Smiths Fork 95%, Cub River 106%, Logan River 92% and Blacksmith Fork 108%.

All water users are expected to have adequate water supplies this season and peak flows are forecast about average assuming normal temperature and precipitation during the runoff season.

USDA SCS-PORTLAND, OR 1983 M7-OL-22027-1

STREAMFLOW FORECASTS

BASIN STREAM and/or FORECAST POINT	THIS YEAR FORECAST Thousand Acre Feet	THIS YEAR FORECAST Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year 3	PAST RECORD THOUSAND ACRE FEET Average +
BEAR RIVER					
Bear nr UT-Wyo. State Line	135	124	May-July	146	109
Bear nr Woodruff	163	129	May-July	144	126
Woodruff Crk nr Woodruff, UT	15.6	96	May-July	22	16.3
Big Creek nr Randolph, UT	6.3	131	May-July	--	4.8b
Bear nr Randolph	117	127	May-July	118	92
Thomas Fork nr ID-WY State Ln	32	105	May-Sept	--	30
Smith's Fork nr Border, WY	106	95	May-Sept	--	112
Bear at Harer, Idaho 1/	293	108	May-Sept	--	271
Logan nr Logan 1/	96	92	May-July	157	105
Blacksmith Fork nr Hyrum	44	108	May-July	63	40
Little Bear nr Paradise	24	90	May-June	43	26
Cub River nr Preston, ID	52	106	May-Sept	--	49

SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and or SUBWATERSHED	Number of Courses Averaged	THIS YEAR AS A PERCENT OF Last Year	THIS YEAR AS A PERCENT OF Average
BEAR RIVER	18	73	109
UPPER BEAR RIVER	4	82	106
LOWER BEAR RIVER	14	72	110
LOGAN RIVER	7	72	104

1 - Observed flow corrected for change in storage and diversions
2 - Inflow record as computed by U. S. Bureau of Reclamation
3 - Provisional flows - Subject to Correction
a - Partly estimated
b - Average of all past record - less than 15 years
e - Maximum mean daily peak flow
+ - 1963-77 15 year Average Period

RESERVOIR STORAGE (Thousand Acre Feet)

BASIN OR STREAM	RESERVOIR	Usable Capacity	USEABLE STORAGE This Year	USEABLE STORAGE Last Year	USEABLE STORAGE Average+
BEAR RIVER	Bear Lake	1421.0	1106.4	1003.7	1098.4
	Woodruff Narrows	57.3	57.4	56.8	25.7
	Woodruff Creek	4.0	3.5		
LITTLE BEAR	Hyrum	15.3	10.8	10.2	13.4
	Porcupine	11.3	11.9	11.9	8.7

PEAK FLOWS e

FORECAST POINT	PEAK FLOW (SECOND FEET) Forecast Range	PEAK FLOW (SECOND FEET) Average +
Big Creek nr Randolph	60-100	63
Logan River nr Logan	650-1240	1016
Woodruff Creek nr Woodruff	240-390	267
Little Bear nr Paradise	390-710	507
Bear nr. Ut.-Wyo. Stateline	1620-2360	1600

SNOW

DRAINAGE BASIN and or SNOW COURSE NAME	Date of Survey	THIS YEAR Snow Depth (Inches)	THIS YEAR Water Content (Inches)	PAST RECORD Water Content (Inches) Last Year	PAST RECORD Water Content (Inches) Average +
Burts-Miller Ranch	4/27	13	4.2	4.0	3.0
Cub River R.S.	4/26	0	0.0	0.6	0.0
Emigrant Summit	4/28	74	30.2	35.3	24.9
Franklin Basin	4/26	75	30.2	41.2	27.0
Hayden Fork	4/27	52	18.2	21.3	16.7
Klondike Narrows	4/26	49	20.2	28.4	16.8

SNOW

DRAINAGE BASIN and or SNOW COURSE NAME	Date of Survey	THIS YEAR Snow Depth (Inches)	THIS YEAR Water Content (Inches)	PAST RECORD Water Content (Inches) Last Year	PAST RECORD Water Content (Inches) Average +
Little Bear Lower	4/26	17	3.3	4.9	2.1
Little Bear Upper	4/26	30	8.5	9.2	6.7
Monte Cristo	4/26	77	27.8	37.4	27.6
Salt River Summit	4/26	50	15.2	18.8	15.4
Stillwater Camp	4/27	37	11.0	12.3	10.2b
Tony Grove R.S.	4/26	19	6.9	14.4	3.8

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
Federal Bldg. - Room 4012
Salt Lake City, Utah 84138

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"The Conservation of Water begins with the Snow Survey"

WATER SUPPLY OUTLOOK
WEBER-OGDEN WATERSHEDS in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE
UTAH STATE DEPARTMENT OF NATURAL RESOURCES

MAY 1, 1983

THE WATER SUPPLY OUTLOOK IS ABOVE AVERAGE

SNOW COVER did not melt as much as usual during April and now ranges from 114% of the May 1 average on the Weber to 142% on the Ogden.

PRECIPITATION at mountain stations varied from 64% of the April average at Smith and Morehouse to 107% at Ben Lomond Trail and Horse Ridge.

SOIL MOISTURE is above average and is expected to absorb very little snow melt water.

RESERVOIR STORAGE is 107% of the May 1 average on the Ogden and 95% of average on the Weber after releasing water to make space for delayed spring runoff.

STREAMFLOW FORECASTS range from 110% of the May-June average on East Canyon Creek to 155% on Farmington Creek. The Ogden is forecast 112% on South Fork and 124% for Pineview Inflow. Weber River is forecast 116% at Oakley, 119% for Rockport Inflow, 120% for Echo Inflow, and 124% at Gateway. Chalk Creek is forecast 135%, Hardscrabble 118% and Lost Creek 114% of the May-June average.

All water users are expected to have adequate water supplies this season. Peak flows are expected to be in the 10 to 30% above average range. Property adjacent to streams should be protected.

USDA-SCS-PORTLAND, OR 1981 M7-OL-22027-2

WEBER-OGDEN WATERSHEDS IN UTAH

STREAMFLOW FORECASTS

BASIN STREAM and/or FORECAST POINT	THIS YEAR FORECAST Thousand Acre Feet	THIS YEAR FORECAST Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year [3]	PAST RECORD THOUSAND ACRE FEET Average +
WEBER-OGDEN RIVERS					
Weber nr Oakley	111	116	May-June	122	96
Rockport Reservoir Inflow 1/	116	119	May-June	149	98
Chalk Creek at Coalville	44	135	May-June	50	33
Weber nr Coalville	122	117	May-June	145	104
Lost Creek nr Croydon, UT	14.4	114	May-June	20	12.6[b]
East Canyon Creek nr Morgan 1/	19.0	110	May-June	29	17.3
Hardscrabble Crk nr Porterville	16.8	118	May-June	--	14.7[b]
South Fork Ogden nr Huntsville	47	112	May-June	65	42
Pineview Reservoir Inflow 2/	94	124	May-June	106	76
Echo Reservoir Inflow	160	120	May-June	180	133
Weber at Gateway	295	124	May-June	289	238
JORDAN RIVER & SALT LAKE					
Farmington Crk nr Farmington	10.7	155	May-July	--	6.9[b]

SUMMARY of SNOW MEASUREMENTS (COMPARISON to PREVIOUS YEARS)

RIVER BASIN and or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR AS A PERCENT OF Last Year	THIS YEAR AS A PERCENT OF Average
OGDEN RIVER	5	94	142
WEBER RIVER	12	82	114

1 - Observed flow corrected for change in storage and diversions
2 - Inflow record as computed by U. S. Bureau of Reclamation
3 - Provisional flows - Subject to Correction
a - Partly estimated
b - Average of all past record - less than 15 years
e - Maximum mean daily peak flow
+ - 1963-77 15 year Average Period

RESERVOIR STORAGE (Thousand Acre Foot)

BASIN OR STREAM	RESERVOIR	Usable Capacity	USEABLE STORAGE This Year	USEABLE STORAGE Last Year	USEABLE STORAGE Average +
OGDEN	Causey	6.9	1.8	3.4	2.3
	Pineview	110.1	83.3	78.3	76.9
WEBER	East Canyon	48.1	39.6	35.8	33.1
	Echo	73.9	40.2	20.7	55.2
	Lost Creek	20.0	15.2	13.0	13.9
	Rockport	60.9	32.4	35.2	37.2
	Willard Bay	193.3	161.1	159.0	162.9

PEAK FLOWS [e]

FORECAST POINT	PEAK FLOW (SECOND FEET) Forecast Range	PEAK FLOW (SECOND FEET) Average +
Lost Creek nr Croydon	220-340	220
South Fork Ogden nr Huntsville	730-1020	772
Chalk Creek nr Coalville	590-930	568
Weber nr Oakley	1600-2060	1560

SNOW

DRAINAGE BASIN and or SNOW COURSE NAME	Date of Survey	THIS YEAR Snow Depth (Inches)	THIS YEAR Water Content (Inches)	PAST RECORD Water Content (Inches) Last Year	PAST RECORD Water Content (Inches) Average +
Beaver Creek R.S.	4/29	10	3.8	4.0	1.3
Beaver Creek-Skunk Creek	4/26	30	10.1	11.8	7.1
Ben Lomond Peak	4/26	126	52.1	51.2	37.2
Ben Lomond Trail	4/26	48	17.3	17.1	7.7[b]
Chalk Creek #1	4/27	79	29.0	34.3	25.4
Chalk Creek #2	4/27	50	17.2	20.9	15.3
Chalk Creek #3	4/27	20	6.4	6.7	3.5
Dry Bread Pond	4/26	56	20.4	27.1	19.0

SNOW

DRAINAGE BASIN and or SNOW COURSE NAME	Date of Survey	THIS YEAR Snow Depth (Inches)	THIS YEAR Water Content (Inches)	PAST RECORD Water Content (Inches) Last Year	PAST RECORD Water Content (Inches) Average +
Horse Ridge	4/26	62	23.1	31.6	20.8[b]
Lost Creek Reservoir	4/26	0	0.0	0.0	0.0
Monte Cristo	4/26	77	27.8	37.4	27.6
Parleys Canyon Summit	4/27	62	23.1	17.8	14.6
Sagebrush Flat	4/26	3	0.8	0.0	0.0
Smith & Morehouse	4/27	37	13.5	14.0	10.0
Trial Lake	4/29	88	31.4	39.1	26.1

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SOIL CONSERVATION SERVICE
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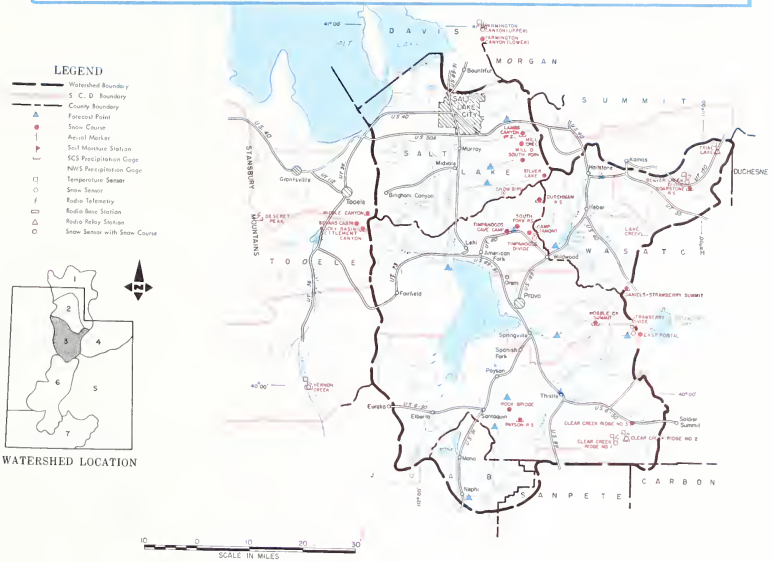
"The Conservation of Water begins with the Snow Survey"

WATER SUPPLY OUTLOOK
UTAH LAKE, JORDAN RIVER and TOOELE VALLEY WATERSHEDS in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE
UTAH STATE DEPARTMENT OF NATURAL RESOURCES



MAY 1, 1983

THE WATER SUPPLY OUTLOOK IS ABOVE AVERAGE

SNOW COVER did not melt as much as usual in April and now ranges from 142% of the May 1 average along the Jordan River to 217% in Tooele Valley. Utah Lake drainages are now 173% of the May 1 fifteen year average.

PRECIPITATION at mountain stations varied from 70% of the April average at Clear Creek #2 to 121% at Middle Canyon above Tooele. Most other stations on the Provo-Utah Lake drainage were a little less than average for April.

SOIL MOISTURE is above average and is not expected to absorb much snow melt water.

RESERVOIR STORAGE is above average for all reservoirs except those that have released water to make room for spring runoff. Utah Lake is now 2.72 feet above compromise and Great Salt Lake is 4,203.70 feet above sea level and 3.30 feet above last year at this time.

STREAMFLOW FORECASTS range from 137% of the May-July average for Little Cottonwood to 413% of the May-June average for Vernon Creek. Other forecasts are: Provo near Hailstone 151%, Provo below Deer Creek Dam 158%, American Fork 171%, Hobble Creek 174%, Strawberry Inflow 149%, Spanish Fork at Thistle 243%, Payson Creek 196% and Utah Lake Inflow 164%. Little Cottonwood is forecast 137%, Big Cottonwood 159%, Parley's Creek 182%, Mill Creek 163%, Emigration Creek 186% and City Creek 181%. South Willow Creek near Grantsville is now forecast 156% and Settlement Creek near Tooele 235%.

High peak flows are expected and some damage has already occurred. Flood protection precautions should be taken to protect flood prone property.

USDA-SCS-PORTLAND, OR (1983) M7-OL-22027-3

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR FORECAST (Thousand Acre Feet)	THIS YEAR FORECAST (Percent of Average)	FORECAST PERIOD	PAST RECORD (Thousand Acre Feet) Last Year 3	PAST RECORD (Thousand Acre Feet) Average 4
PROVO RIVER AND UTAH LAKE					
Provo nr Hailstone 1/	140	151	May-July	153	106
Provo below Deer Creek Dam 1/	155	158	May-July	--	100
American Fork nr American Fork	48	171	May-July	--	28
Hobble Creek nr Springville	25	174	May-July	--	14.4
Strawberry Reservoir Inflow 1/	63	149	May-July	84	42
Spanish Fork at Thistle	73	243	May-July	--	31
Payson Creek nr Payson	10.0	196	May-July	--	5.1[b]
Utah Lake Inflow	285	164	May-July	--	174
JORDON RIVER & SALT LAKE					
Little Cottonwood Crk nr SLC	48	137	May-July	--	36
Big Cottonwood nr SLC	54	159	May-July	--	34
Parley's Creek nr SLC	22	182	May-July	--	12.1
Mill Creek nr SLC	8.8	163	May-July	--	5.4
Emigration Creek nr SLC	5.4	186	May-July	--	2.9
City Creek nr SLC	12.5	181	May-July	--	2.9
TOOELE VALLEY					
Settlement Crk nr Tooele	4.9	235	May-July	--	2.1[b]
S. Willow Crk nr Grantsville	4.0	156	May-July	3.6	2.6
Vernon Creek nr Vernon	1.9	413	May-June	0.8	0.5

SUMMARY of SNOW MEASUREMENTS (COMPARISON to PREVIOUS YEARS)

RIVER BASIN and/or SUBWATERSHED	Number of Courses Averaged	THIS YEAR AS A PERCENT OF Last Year	THIS YEAR AS A PERCENT OF Average
PROVO RIVER & UTAH LAKE	11	115	173
JORDON RIVER	2	95	142
TOOELE VALLEY	3	249	217

1 - Observed flow corrected for change in storage and diversions
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a - Partly estimated
b - Average of past record - less than 15 years
+ - 1963-77 15 year average period
e - Maximum daily peak flow

RESERVOIR STORAGE (Thousand Acre Feet)

BASIN OR STREAM	RESERVOIR	Useable Capacity	USEABLE STORAGE This Year	USEABLE STORAGE Last Year	USEABLE STORAGE Average +
SPANISH FORK	Strawberry	270.0	263.4	193.0	166
UTAH LAKE	Utah Lake	883.9	1164.5	936.7	775.5
	Settlement Creek	1.2	1.0	--	0.7
	Vernon Creek	0.6	0.6	0.6	--
PROVO	Deer Creek	149.7	112.4	125.7	115.1

PEAK FLOWS e

FORECAST POINT	PEAK FLOW(SECOND FEET) Forecast Range	PEAK FLOW(SECOND FEET) Average +
Big Cottonwood nr Salt Lake City	500-600	210
Little Cottonwood nr Salt Lake City	500-600	482
Provo Near Hailstone	2300-2700	310
Spanish Fork nr Thistle	1000-1200	
American Fork nr American Fork	550-650	
Mill Creek nr Salt Lake City	80-90	
Parley's Creek nr Salt Lake City	250-300	
City Creek nr Salt Lake City	110-130	

SNOW

DRAINAGE BASIN and/or SNOW COURSE NAME	THIS YEAR Date of Survey	THIS YEAR Snow Depth (Inches)	THIS YEAR Water Content (Inches)	PAST RECORD Water Content (Inches) Last Year	PAST RECORD Water Content (Inches) Average +
Camp Altamont	4/30	50	21.3	11.7	7.7
Clear Creek #1	4/27	56	24.1	23.1	17.7
Clear Creek #2	4/27	40	15.9	15.5	10.5
Clear Creek #3	4/27	0	0.0	0.0	0.1
Daniels-Strawberry Summit	4/28	44	19.1	15.1	9.5
Deseret Peak	4/28	109	44.2	38.5	--
Dutchman R.S.	4/30	64	24.7	18.1	9.8
Hobble Creek Summit	4/28	41	18.2	11.8	7.7
Lambs Canyon #2	4/27	54	20.4	15.5	--
Middle Canyon	5/1	53	23.0	6.0	10.4
Mill Creek	4/28	71	27.4	27.4	--

SNOW

DRAINAGE BASIN and/or SNOW COURSE NAME	THIS YEAR Date of Survey	THIS YEAR Snow Depth (Inches)	THIS YEAR Water Content (Inches)	PAST RECORD Water Content (Inches) Last Year	PAST RECORD Water Content (Inches) Average +
Mill O South Fork	4/28	63'	26.0	23.6	16.2
Parley's Canyon Summit	4/27	62	23.2	17.8	14.6
Payson R.S.	4/27	66	30.4	21.4	15.8
Rocky Basin-Settlement Canyon	4/28	121	52.2	29.8	30.2
Silver Lake Brighton	4/28	89	36.2	41.7	27.6
Soapstone R.S.	4/29	28	10.0	13.2	7.9
South Fork R.S.	4/30	12	5.6	0.0	--
Timpanogos Divide	4/30	84	35.9	36.6	22.0
Trial Lake	4/29	88	31.4	39.1	26.1
Vernon Creek	4/28	--	21.5[a]	3.1	4.0[b]

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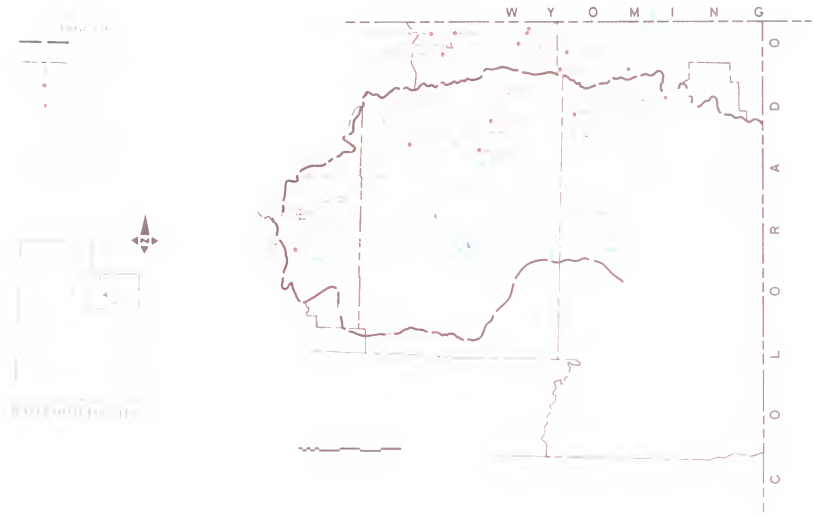
WATER SUPPLY OUTLOOK

UINTAH BASIN and DAGGETT SCD's in UTAH



MAY 1, 1983

THE WATER SUPPLY OUTLOOK IS ABOVE AVERAGE

SNOW COVER now ranges from 129 of the May 1 average on Blacks Fork to 187 on the Duchesne River. Lakefork-Yellowstone Creeks are 160 . Uintah-Whiterocks 163 . Ashley Creek 161% and Strawberry River 176 of average.

PRECIPITATION at mountain stations ranged from 73 of the April average at Currant Creek to 121 at Hewinta G. S. on the north slope of the Uinta Mountains. Most other stations were within 20 of average.

SOIL MOISTURE is above average.

RESERVOIR STORAGE is above average with Steinaker 27,200 acre feet and Moon Lake 33,200 acre feet.

STREAMFLOW FORECASTS for the May-July period now range from 122% of average on Blacks Fork to 190% for the Duchesne at Randlett. The Duchesne is forecast 141% at Tabiona, 139% at Duchesne and 185% at Myton. Currant Creek is forecast 135 . Rock Creek 127%, Lakefork 131%, Yellowstone 143%, Uintah 159%, Whiterocks 145%, Ashley 142% and Henrys Fork 149% of the May-July average.

All water users are expected to have above average water supplies this season. Peak flows are expected higher than average and provisions should be made to protect property close to stream channels.

UINTAH BASIN AND DAGGETT SCD's IN UTAH

STREAMFLOW FORECASTS

BASIN STREAM and/or FORECAST POINT	THIS YEAR FORECAST Thousand Acre Feet	THIS YEAR FORECAST Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year 3	PAST RECORD THOUSAND ACRE FEET Average †
DUCHESNE RIVER					
Duchesne nr Tabiona 1/	138	141	May-July	161	98
Duchesne at Duchesne 1/	250	139	May-July	254	180
Strawberry at Duchesne	76	159	May-July	79	48
Rock Creek nr Mtn. Home	116	127	May-July	107	91
Currant Creek nr Fruitland	22	135	May-July	27	16.5
Lakefork below Moon Lake 1/	91	131	May-July	77	69
Yellowstone nr Altonah	91	143	May-July	71	63
Duchesne at Myton 1/	357	185	May-July	262	193
Whiterocks nr Whiterock	84	145	May-July	60	58
Uintah nr Neola	134	159	May-July	85	85
Duchesne at Randlett 1/	424	190	May-July	319	223
West Fork Duchesne at Hanna	35	147	May-July	--	24
FLAMING GORGE TO DUCHESNE RIVER					
Henry's Fork nr Manila	73	149	May-Sept	36	49
Black's Fork at Millburne	110	122	May-July	94	89
Flaming Gorge Inflow 1/	1120	87	May-July	--	1292
Ashley Creek nr Vernal	70	142	May-July	49	50

SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUBWATERSHED	Number of Survey Averages	THIS YEAR AS A PERCENT OF Last Year	THIS YEAR AS A PERCENT OF Average
DUCHESNE RIVER - TOTAL	12	131	187
LAKEFORK-YELLOWSTONE CREEKS	4	125	160
STRAWBERRY RIVER	5	106	176
UINTAH - WHITEROCKS RIVERS	3	130	163
ASHLEY CREEK	2	154	161
BLACK'S FORK	4	107	129

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a - Partly estimated
b - Average of all past record - less than 15 years
e - Maximum mean daily peak flow
+ - 1963-77 15 year Average Period

RESERVOIR STORAGE (Thousand Acre Feet)

BASIN OR STREAM	RESERVOIR	Usable Capacity	USEABLE STORAGE This Year	USEABLE STORAGE Last Year	USEABLE STORAGE Average †
ASHLEY CREEK	Steinaker	33.3	27.2	25.5	23.7
GREEN RIVER	Flaming Gorge	3749.0	3248.6	2636.4	--
LAKE FORK	Moon Lake	35.8	33.2	17.7	19.0
STRAWBERRY	Starvation	165.3	117.5	123.9	--
UINTAH	Bottle Hollow	11.3	11.0	11.0	--

PEAK FLOWS e

FORECAST POINT	PEAK FLOW (SECOND FEET) Forecast Range	PEAK FLOW (SECOND FEET) Average †
Strawberry at Duchesne	940-1360	656
Ashley Creek nr Vernal	880-1380	1030
Rock Creek nr. Mtn. Home	1660-1970	1432

SNOW

DRAINAGE BASIN and/or SNOW COURSE NAME	THIS YEAR Date of Survey	THIS YEAR Snow Depth (Inches)	THIS YEAR Water Content (Inches)	PAST RECORD Water Content (Inches) Last Year	PAST RECORD Water Content (Inches) Average †
Brown Duck Ridge	4/29	90	30.8	31.3	20.1[a]
Currant Creek	4/28	27	10.6	5.5	2.3[b]
Daniels-Strawberry	4/28	44	19.1	15.1	9.5
Hewinta G. S.	4/27	43	13.6	11.4	10.4
Hickerson Park	4/27	42	12.1	8.1	5.9[b]
Jackson Park	4/29	73	23.4	16.4	--
Kings Cabin Upper	4/29	44	13.5	11.9	10.3

SNOW

DRAINAGE BASIN and/or SNOW COURSE NAME	THIS YEAR Date of Survey	THIS YEAR Snow Depth (Inches)	THIS YEAR Water Content (Inches)	PAST RECORD Water Content (Inches) Last Year	PAST RECORD Water Content (Inches) Average †
Lakefork Mountain	4/29	59	15.9	14.7	11.9
Mosby Mountain	4/29	55	15.1	11.2	9.9
Paradise Park	4/29	73	24.6	20.8	14.3
Rock Creek Ranch	4/29	22	6.6	2.3	1.3[b]
Spirit Lake	4/27	63	23.3	18.3	15.5
Steel Creek Park	4/27	74	24.3	23.6	18.7
Strawberry Divide	4/29	58	23.9	22.2	--
Trout Creek	4/29	51	15.9	12.4	--

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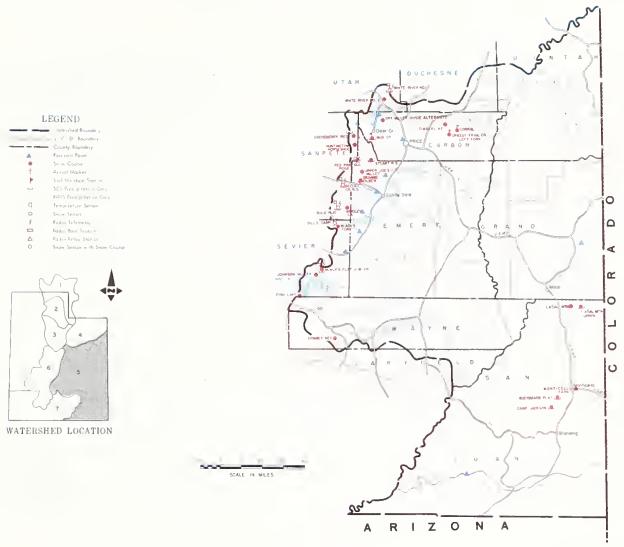
WATER SUPPLY OUTLOOK
CARBON, EMERY, WAYNE, GRAND and SAN JUAN COUNTIES in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE
UTAH STATE DEPARTMENT OF NATURAL RESOURCES



MAY 1, 1983

THE WATER SUPPLY OUTLOOK IS MUCH ABOVE AVERAGE

SNOW COVER melted slower than usual in April and now varies from 194% of the May 1 average on Price River to 310% on the Blue Mountains above Monticello and Blanding. The San Rafael watersheds are 209%, Fremont River 240% and Muddy River 196% of average. Several snow course water contents set a new May 1 record.

PRECIPITATION at mountain stations ranged from 49% of the April average at White River #1 on the Price River to 149% at Buckboard Flat on the Blue Mountains.

SOIL MOISTURE is above average and is not expected to absorb snow melt when the runoff occurs.

RESERVOIR STORAGE is near average. Reservoirs have released water to make room for snow melt runoff.

STREAMFLOW FORECASTS range from 111% for Green River near Green River to 221% for Ferron Creek. Other forecasts are: Gooseberry Creek 160%, Scofield Inflow 188%, Price near Heiner 202%, Huntington Creek 178%, Cottonwood Creek 191%, Muddy Creek 207%, Colorado River near Cisco 114%, Mill Creek near Moab 217%, San Juan River 123% and Seven Mile Creek near Fish Lake 143% of the May-July average.

Peak flows should be well above average on most streams and precautions should be taken to prevent property damage near stream channels.

USGA:SCS-PORTLAND OR 1981 M7-OL-22027-5

CARBON, EMERY, WAYNE, GRAND AND SAN JUAN COUNTIES IN UTAH

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR FORECAST Thousand Acre Feet	THIS YEAR FORECAST Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average †
PRICE RIVER					
Gooseberry Crk nr Scofield	15.0	160	May-July	--	9.4
Scofield Reservoir Inflow	59	188	May-July	--	31
Price nr Heiner 1/	105	202	May-July	--	52
SAN RAFAEL RIVER					
Huntington Crk nr Huntington	79	178	May-July	--	45[b]
Cottonwood Crk nr Orangeville	79	191	May-July	63	47[b]
Ferron Creek nr Ferron	71	221	May-July	47	32
MUDDY CREEK					
Muddy Creek nr Emery	32	207	May-July	25	15.5
UPPER COLORADO BASIN					
Colorado nr Cisco, UT	2715	114	May-July	--	2716
Green at Green River, UT	3300	111	May-July	--	2974
Mill Creek nr Moab	9.3	217	May-July	3.4	4.3[b]
Navajo Reservoir Inflow	615	126	May-July	--	608
San Juan nr Bluff, UT	875	123	May-July	--	865
FREMONT RIVER					
Seven Mile Crk nr Fish Lake	8.2	143	May-July	6.9	5.7

SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUBBASIN(S)	Number of Courses Averaged	THIS YEAR AS A PERCENT OF Last Year	THIS YEAR AS A PERCENT OF Average
PRICE RIVER	3	122	194
SAN RAFAEL RIVER	6	142	209
FREMONT RIVER	3	179	240
LASAL MOUNTAINS	2	568	276
BLUE MOUNTAINS	2	1081	310
MUDDY RIVER	1	127	196

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b - Average of all past record - less than 15 years
e - Maximum mean daily peak flow
† - 1963-77 15 year Average Period

RESERVOIR STORAGE (Thousand Acre Feet)

BASIN OR STREAM	RESERVOIR	Useable Capacity	USEABLE STORAGE This Year	USEABLE STORAGE Last Year	USEABLE STORAGE Average †
PRICE RIVER	Scofield	65.8	37.6	43.2	36.9
SAN RAFAEL	Huntington North	3.9	3.6	3.3	3.9[b]
	Joe's Valley	54.6	33.9	31.9	39.1[b]
	Mill Site	16.7	13.5	8.5	--
SAN JUAN	Navajo	1696.0	1316.8	1283.9	--
	Kens Lake	2.3	1.6	1.1	--

PEAK FLOWS[e]

FORECAST POINT	PEAK FLOW (SECOND FEET) Forecast Range	PEAK FLOW (SECOND FEET) Average †
Ferron Creek near Ferron	840-1000	422
Muddy Creek near Emery	260-390	154
Huntington Cr. near Huntington	1100-1300	--

SNOW

DRAINAGE BASIN and/or SNOW COURSE NAME	THIS YEAR Date of Survey	THIS YEAR Snow Depth (Inches)	THIS YEAR Water Content (Inches)	PAST RECORD Water Content (Inches) Last Year	PAST RECORD Water Content (Inches) Average †
Buck Flat	4/25	71	29.6	24.2	15.4
Buckboard Flat	4/29	50	19.2	2.1	7.1
Camp Jackson	4/29	52	20.8	1.6	5.8
Dills Camp	4/25	51	19.4	15.3	9.9[a]
Dry Valley Divide Alternate	4/27	30	14.0	8.2	--
Huntington-Horseshoe	4/25	106	45.0	28.0	--
Mammoth-Cottonwood R.S.	4/25	79	35.2	27.4	19.1
Lasal Mtn. Upper	4/30	78	29.2	8.2	12.6

SNOW

DRAINAGE BASIN and/or SNOW COURSE NAME	THIS YEAR Date of Survey	THIS YEAR Snow Depth (Inches)	THIS YEAR Water Content (Inches)	PAST RECORD Water Content (Inches) Last Year	PAST RECORD Water Content (Inches) Average †
Monticello City Park	4/30	0	0.0	--	--
Mud Creek	4/25	45	17.7	15.2	7.9
Red Pine Ridge	4/25	65	27.2	20.2	14.8
Seeley Creek	4/25	76	31.0	19.6	17.2
White River #1	4/27	41	16.5	15.7	10.5
White River #3	4/27	8	3.5	0.0	1.0[b]

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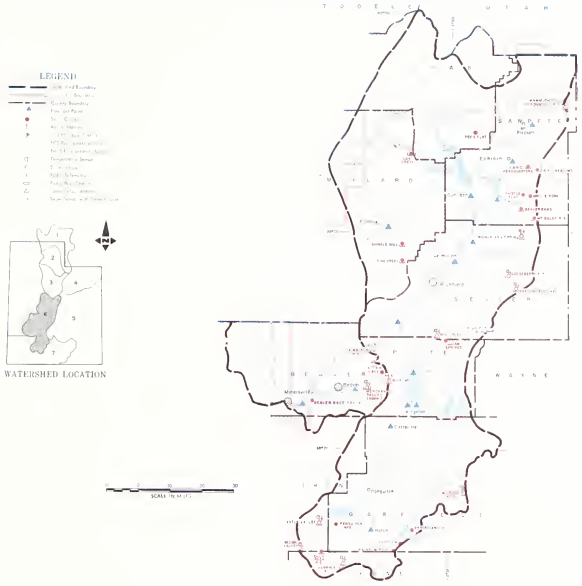
WATER SUPPLY OUTLOOK

SEVIER RIVER BASIN including BEAVER RIVER in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE
UTAH STATE DEPARTMENT OF NATURAL RESOURCES



MAY 1, 1983

THE WATER SUPPLY OUTLOOK IS WELL ABOVE AVERAGE

SNOW COVER did not melt as much as usual in April and now ranges from 185% of the May 1 average on the Lower Sevier to 275% of average on the South Fork Sevier. The East Fork Sevier is 220% of average and Beaver River is 234%. Many snow courses on these watersheds have set new May 1 water content records.

PRECIPITATION at mountain stations ranged from 63% of the April average at Duck Creek R. S. to 140% at Box Creek above Koosharem.

SOIL MOISTURE is above average and is expected to soak up very little snow melt runoff.

RESERVOIR STORAGE is above average in all reservoirs except Otter Creek. All reservoirs have released water to make room for expected heavy runoff.

STREAMFLOW FORECASTS range from 194% of the May-July average for Salt Creek to 548% for Minersville Inflow. Most other forecasts are 2 to 3 times average and peak flows are expected to be much higher than usual. Precautions should be taken to protect property in the flood plains of all streams in the area. Other forecasts are: Sevier at Hatch 300%, Kingston 305%, Gunnison 289%, Salina Creek 226%, Chalk Creek 328%, Ephriam Creek 227%, Chicken Creek 304%, Oak Creek 263% and Beaver River 291%.

USDA-SCS-PORTLAND OR (07) M7-OL-22027-6

SEVIER RIVER BASIN INCLUDING BEAVER RIVER IN UTAH

STREAMFLOW FORECASTS

BASIN STREAM and/or FORECAST POINT	THIS YEAR (1000 AC. FT.) Thousand Acre Feet	THIS YEAR (1000 AC. FT.) Percent of Average	FORECAST PERIOD	PAST RECORD (THOUSAND ACRE FEET) Last Year 3	PAST RECORD (THOUSAND ACRE FEET) Average +
SEVIER RIVER					
Sevier at Hatch	105	300	May-July	--	35
Sevier nr Circleville	70	304	May-July	--	23
Sevier nr Kingston	53	305	May-July	--	16.9
Antimony Crk nr Antimony	15.0	263	May-July	--	5.7[b]
East Fork Sevier nr Kingston1/	28	269	May-July	--	10.5
Sevier below Piute Dam	80	296	May-July	--	27
Clear Crk nr Sevier (abv Div)	37	242	May-July	--	15.3
Sigurd to Gunnison	57	271	May-July	--	22
Kingston to Vermillion Dam	140	250	May-June	--	56
Vermillion Dam to Gunnison	155	442	Mar-June	--	35
Salina Creek at Salina	24	226	May-June	--	10.4
Sevier nr Gunnison	110	289	May-July	--	38
Chalk Creek nr Fillmore	43	328	May-July	--	13.1
Chicken Creek nr Levan	7.6	304	May-July	4.4	2.5
Oak Cr. nr Oak City	2.6	263	May-July	1.3	1.0[b]
Ephraim Creek nr Ephraim	30	227	May-July	--	13.2[b]
Pleasant Crk nr Mt. Pleasant	17.5	222	May-July	--	7.9[b]
Salt Creek nr. Nephi	19.4	194	May-July	--	10.0
Beaver nr Beaver	53	291	May-July	29	18.0
North Creek (Combined)	32	267	May-July	--	12.0[b]
Minersville Inflow	30	548	May-June	--	5.4

SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and or SUB-WATERSHED	Number of Stations Averaged	THIS YEAR AS A PERCENT OF Last Year	THIS YEAR AS A PERCENT OF Average
UPPER SEVIER RIVER			
East Fork Sevier	2	164	220
South Fork Sevier	6	237	275
LOWER SEVIER	11	165	185
BEAVER RIVER	3	166	234

1 - Observed flow corrected for change in storage and diversions
2 - Inflow record as computed by U. S. Bureau of Reclamation
3 - Provisional flows - Subject to Correction
a - Partly estimated
b - Average of all past record - less than 15 years
e - Maximum mean daily peak flow
+ - 1963-77 15 year Average Period

RESERVOIR STORAGE (Thousand Acre Feet)

BASIN OR STREAM	RESERVOIR	Usable Capacity	USEABLE STORAGE This Year	USEABLE STORAGE Last Year	USEABLE STORAGE Average +
SEVIER RIVER	Gunnison	18.2	17.1	18.2	14.9
	Otter Creek	52.5	34.5	54.2	39.5
	Piute	71.8	71.4	66.8	47.1
	Sevier Bridge	236.0	227.6	217.2	144.6
	Panguitch Lake	22.3	21.8	--	--
BEAVER RIVER	Minersville (Rky Fd)	26.0	23.5	19.9	15.3

PEAK FLOWS e

FORECAST POINT	PEAK FLOW (SECOND FEET) Forecast Range	PEAK FLOW (SECOND FEET) Average +
Sevier River at Hatch	900-1300	418
Beaver River nr Beaver	550-810	211
Sevier River nr Kingston	700-900	263
Clear Creek nr Sevier	350-450	170
Salina Creek nr Salina	700-900	235

SNOW

DRAINAGE BASIN and or SNOW COURSE NAME	Date of Survey	THIS YEAR Snow Depth (Inches)	THIS YEAR Water Content (Inches)	PAST RECORD Water Content (inches) Last Year	PAST RECORD Water Content (inches) Average +
Big Flat	4/27	98	36.6	25.4	18.6
Bryce Canyon	4/26	17	6.2	0.0	--
Castle Valley	4/26	56	25.3	11.1	7.2
Duck Creek	4/26	63	27.3	12.0	7.8
Farnsworth Lake	4/26	77	31.3	22.6	22.2
Gooseberry R.S.	4/26	38	16.6	10.4	10.2
Harris Flat	4/26	29	11.3	0.0	2.1
Kimberly Mine	4/27	68	28.5	17.7	15.8

SNOW

DRAINAGE BASIN and or SNOW COURSE NAME	Date of Survey	THIS YEAR Snow Depth (Inches)	THIS YEAR Water Content (Inches)	PAST RECORD Water Content (inches) Last Year	PAST RECORD Water Content (inches) Average +
Long Valley Junction	4/26	0	0.0	0.0	0.0
Merchants Valley Upper	4/27	51	20.7	7.3	5.9[b]
Midway Valley	4/26	112	47.2	23.4	21.5
Oak Creek	4/27	63	26.9	8.2	9.6[b]
Otter Lake	4/27	76	28.4	18.9	12.1
Pickle Keg Springs	4/25	65	26.1	17.2	15.1[b]
Pine Creek	4/27	76	34.8	12.6	13.6
Widtsoe-Escalante #3	4/26	53	21.4	12.2	9.0

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WATER SUPPLY OUTLOOK

EAST GARFIELD, KANE, WASHINGTON and IRON COUNTIES in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE
UTAH STATE DEPARTMENT OF NATURAL RESOURCES

MAY 1, 1983

THE WATER SUPPLY OUTLOOK IS WELL ABOVE AVERAGE

SNOW COVER now ranges from 199% of the May 1 average on Parowan Creek to 524% on Enterprise-New Harmony area. Coal Creek is 268% and Virgin River is 239% of the May 1 average. Many snow course measurements set new May 1 water content records.

PRECIPITATION at mountain stations ranged from 73% at Webster Flat to 166% at Little Grassy.

SOIL MOISTURE is above average and is not expected to soak up snow melt runoff.

RESERVOIR STORAGE is above average with most local reservoirs reported full.

STREAMFLOW FORECASTS range from 115% for Lake Powell Inflow to 444% for the Santa Clara River near Pine Valley. The Virgin River near Hurricane is forecast 375% and Coal Creek near Cedar City 246% of the May-July average.

Peak flows are expected to be much higher than usual this year and precautions should be taken to protect property near stream channels.

Excellent water supplies are expected for all water users this season.

: USDA-SCS-PORTLAND, OR 1981: M7-OL-22027-7

EAST GARFIELD, KANE, WASHINGTON AND IRON COUNTIES IN UTAH

STREAMFLOW FORECASTS

BASIN STREAM and/or FORECAST POINT	THIS YEAR FORECAST Thousand Acre Feet	THIS YEAR FORECAST Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year 3	PAST RECORD THOUSAND ACRE FEET Average †
VIRGIN RIVER					
Virgin nr Hurricane	116	375	May-June	29	30
Santa Clara nr Pine Valley	12.0	444	May-June	--	3.3
COAL CREEK					
Coal Creek nr Cedar City	35	246	May-July	17.8	14.2
UPPER COLORADO					
Lake Powell Inflow	7000	115	May-July	--	6952

SUMMARY of SNOW MEASUREMENTS (COMPARISON with PREVIOUS YEARS)

RIVER BASIN and or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR AS A PERCENT OF Last Year	THIS YEAR AS A PERCENT OF Average
COAL CREEK	3	227	268
VIRGIN RIVER	2	198	239
PAROWAN CREEK	4	190	199
ENTERPRISE - NEW HARMONY	2	--	524
ESCALANTE RIVER	1	175	238

1 - Observed flow corrected for change in storage and diversions
2 - Inflow record as computed by U. S. Bureau of Reclamation
3 - Provisional flows - Subject to Correction
a - Partly estimated
b - Average of all past record - less than 15 years
e - Maximum mean daily peak flow
+ - 1963-77 15 year Average Period

RESERVOIR STORAGE (Thousand Acre Feet)

BASIN OR STREAM	RESERVOIR	Usable Capacity	USEABLE STORAGE This Year	USEABLE STORAGE Last Year	USEABLE STORAGE Average †
COLORADO	Lake Powell	25002.0	22782.0	19859.0	--
	Blue Mesa	829.5	434.6	237.7	--

PEAK FLOWS e

FORECAST POINT	PEAK FLOW (SECOND FEET) Forecast Range	PEAK FLOW (SECOND FEET) Average †
Coal Creek nr Cedar City	600-800	245
Virgin nr Virgin	1800-2800	631b

SNOW

DRAINAGE BASIN and/or SNOW COURSE NAME	THIS YEAR Date of Survey	THIS YEAR Snow Depth (Inches)	THIS YEAR Water Content (Inches)	PAST RECORD Water Content (Inches) Last Year	PAST RECORD Water Content (Inches) Average †
Birch Crossing	4/26	23	9.2	0.0	2.5b
Brian Head	4/26	84	34.4	23.8	20.8b
Harris Flat	4/26	29	11.3	0.0	2.1
Kolob-Crystal	4/26	102	46.0	21.4	22.5a
Little Grassy	4/26	0	0.0	0.0	0.2
Long Flat	4/26	29	13.1	0.0	2.3

SNOW

DRAINAGE BASIN and or SNOW COURSE NAME	THIS YEAR Date of Survey	THIS YEAR Snow Depth (Inches)	THIS YEAR Water Content (Inches)	PAST RECORD Water Content (Inches) Last Year	PAST RECORD Water Content (Inches) Average †
Long Valley Junction	4/26	0	0.0	0.0	0.0
SUSC Ranch	4/27	41	15.8	0.0	2.5b
Tall Poles	4/26	55	22.0	12.2	12.3b
Webster Flat	4/26	82	38.2	21.1	13.8
Yankee Reservoir	4/26	42	19.3	7.8	7.0

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SNOW

PRECIPITATION (Inches)

DRAINAGE BASIN and/or SNOW COURSE NAME	THIS YEAR: Date of Survey	THIS YEAR: Snow Depth (Inches)	THIS YEAR: Water Content (Inches)	PAST RECORD: Water Content (Inches): Last Year	PAST RECORD: Water Content (Inches): Average +	CURRENT INFORMATION: Date of Reading	CURRENT INFORMATION: Month's Precipitation	CURRENT INFORMATION: Average +	FROM APPROX. OCT. 1 TO DATE: This Year	FROM APPROX. OCT. 1 TO DATE: Average +	FROM APPROX. OCT. 1 TO DATE: Percent of Average
GREAT BASIN											
UPPER BEAR RIVER (Above Harer, Idaho)											
Burts-Miller Ranch	4/27	13	4.2	4.0	3.0	4/27	3.25	2.66[b]	12.82	14.66[b]	87
CCC Camp	4/26	38	11.8	13.0	10.4						
Hayden Fork	4/27	52	18.2	21.3	16.7	4/27	4.40	4.08[b]	26.02	24.14[b]	108
Monte Cristo R.S.	4/26	77	27.8	37.4	27.6	4/26	6.50	5.22	29.45	31.17	94
Salt River Summit	4/26	50	15.2	18.8	15.4	4/26	4.19	2.53	19.60	19.76	99
Stillwater Camp	4/27	37	11.0	12.3	10.2[b]	4/27	3.35	3.40	16.52	15.79	103
Lily Lake	4/27	53	16.6	20.0	--	4/27	4.19	--	19.27	--	
LOWER BEAR RIVER (Below Harer, Idaho)											
Bug Lake	4/26	56	18.2	30.6	19.2[a]	4/26	5.18	--	19.06	--	
Cub River R.S.	4/26	0	0.0	0.6	0.0						
Emigrant Summit	4/28	74	30.2	35.3	24.9						
Franklin Basin	4/26	75	30.2	41.2	27.0[a]	5/1	7.20[a]	--	36.20[a]	--	
Garden City Summit	4/26	54	18.5	24.5	18.5	4/26	4.21	3.10	22.19	22.33	99
Klondike Narrows	4/26	49	20.2	28.4	16.8	4/26	4.27	3.75[b]	25.51	27.60[b]	92
Little Bear (lower)	4/26	17	3.3	4.9	2.1						
Little Bear (upper)	4/26	30	8.5	9.2	6.7	4/26	4.69	--	30.81	--	
Slug Creek Divide	4/27	43	15.6	21.2	17.0[e]						
Steep Hollow #1	4/26	108	42.4	56.9	40.8						
Steep Hollow #2	4/26	75	30.4	40.8	25.2						
Tony Grove Lake	4/26	93	35.4	54.5	37.6[a]	4/26	7.06[a]	--	36.64[a]	--	
Tony Grove R.S.	4/26	19	6.9	14.4	3.8	4/26	3.47	--	19.90	--	
Willow Flat	4/26	26	9.6	13.7	5.5[b]	4/26	5.56	4.62[b]	30.92	27.51	112
OGDEN RIVER											
Beaver Creek-Skunk Creek	4/26	30	10.1	11.8	7.1						
Ben Lomond Peak	4/26	126	52.1	51.2	37.2						
Ben Lomond Trail	4/26	48	17.3	17.1	7.7[b]	4/26	4.57	5.38[b]	50.28	34.12[b]	147
Causey Dam				0.0	--	4/26	2.58	2.42[b]	15.61	16.64	94
Dry Bread Pond	4/26	56	20.4	27.1	19.0	4/26	4.60[a]	4.20[b]	22.00[a]	25.28	87
Sagebrush Flat	4/26	3	0.8	0.0	0.0	4/26	2.00	2.48[b]	13.66	16.83	
WEBER RIVER											
East Shingle Lake (A)					--						
Beaver Creek R.S.	4/29	10	3.8	4.0	1.3						
Chalk Creek #1	4/27	79	29.0	34.3	25.4	4/27	4.95[a]	--	29.85[a]	--	
Chalk Creek #2	4/27	50	17.2	20.9	15.3	4/27	4.88[a]	--	20.93[a]	--	
Chalk Creek #3	4/27	20	6.4	6.7	3.5	4/27	3.35	3.45[b]	17.48	17.39[b]	101
Farmington Canyon (lower)	4/26	87	35.5	29.3	22.5[b]	4/26	4.50	6.29[b]		33.92	
Farmington Canyon (upper)	4/26	117	47.1	41.5	33.3[b]	4/26	5.00[a]	--	45.43[a]	--	
Farmington G.S.	4/26	85	34.8[a]	30.8[a]	--	4/26	4.68	6.16[b]		33.24[b]	
Hardscrabble	4/26	59	24.0	20.0	--						
Horse Ridge	4/26	62	23.1	31.6	20.8[b]	4/26	5.06	4.74[b]	28.27	28.38	100
Kilfoil Creek	4/26	42	13.6	19.2	10.3[b]						
Lost Creek Reservoir	4/26	0	0.0	0.0	0.0[b]	4/26	2.06	--	11.43	--	
Park City Summit				37.3	--						
Parley's Canyon Summit	4/27	62	23.2	17.8	14.6	4/27	4.78	5.03	29.27	27.58	106
Pine Canyon	4/26	55	20.8	20.6	--						
Redden Mine (lower)	4/27	59	22.3	24.6	18.3	4/27	3.31	--	24.14	--	
Smith & Morehouse	4/27	37	13.5	14.0	10.0	4/27	2.71	4.26	20.48	22.01	93
Sargeant Lake (A)				9.8	--						
PROVO RIVER & UTAH LAKE											
Beaver Creek Divide	4/29	32	10.9	11.1	8.7[a]	4/29	3.31[a]	--	23.98[a]	--	
Camp Altamont	4/30	51	21.5	11.7	7.7						
Clear Creek Ridge #1	4/27	56	24.1	23.1	17.7	4/27	1.82[a]	2.60[a]	25.62[a]	29.80[a]	86
Clear Creek Ridge #2	4/27	40	15.9	15.5	10.5	4/27	2.32	3.31[b]	22.52	19.37[b]	116
Clear Creek Ridge #3	4/27	0	0.0	0.0	0.1						
Dutchman R.S.	4/30	64	24.7	18.1	9.8	4/30	4.00	4.17[b]	33.80	24.99	135
Hobble Creek Summit	4/28	41	18.2	11.8	7.7	4/28		3.20		20.39	
Payson R.S.	4/27	66	30.4	21.4	15.8	4/27	2.57	3.58	24.04	21.53	112
Soapstone R.S.	4/29	28	10.0	13.2	7.9	4/29	3.12	3.57	20.75	19.79	105
South Fork R.S.	4/30	12	5.6	0.0	--						
Timpanogos Cave Camp	4/30	0	0.0	0.0	--						
Timpanogos Divide	4/30	84	35.9	36.6	22.0	4/30	3.85	4.30	37.75	29.39	128
Trial Lake	4/29	88	31.4	39.1	26.1	4/29	4.81	4.89	32.56	28.73	113

USDA-SCS-PORTLAND OR 1977 M7-0-22027 D

+ 1958-1972 period

SNOW

DRAINAGE BASIN and/or SNOW COURSE NAME	THIS YEAR: Date of Survey	THIS YEAR: Snow Depth (inches)	THIS YEAR: Water Content (inches)	PAST RECORD: Water Content (inches): Last Year	PAST RECORD: Water Content (inches): Average †
JORDAN RIVER & GREAT SALT LAKE					
Lamb's Canyon #2	4/27	54	20.4	15.5	--
Middle Canyon	5/1	53	23.0	6.0	10.4
Mill Creek	4/28	71	27.4	27.4	--
Mill D South Fork	4/28	63	26.0	23.6	16.2
Mt. Dell Dam					
Rock Basin-Settlement	4/28	121	52.2	29.8	30.2
Silver Lake (Brighton)	4/28	89	36.2	41.7	27.6
Snow Bird (Gad Valley)					
Vernon Creek	4/28		21.5[a]	3.1	4.0[b]
Deseret Peak	4/28	109	44.2	38.5	--
COLORADO RIVER DRAINAGE					
UPPER GREEN RIVER - UTAH					
Ashley-Twin Lakes (A)				21.0	16.4[b]
Black's Fork G.S.-East Fork	4/27	41	12.3	12.7	9.9
Black's Fork Junction	4/27	37	11.5	10.0	8.7
Buck Pasture (A)				20.4	--
Burnt Creek	4/29	15	6.5[a]	0.9	3.4[b]
Grizzly Ridge	4/29	45	19.2	9.4	10.0[b]
Hewinta G.S.	4/27	43	13.6	11.4	10.4
Hickerson Park	4/27	42	12.1	8.1	5.9[b]
King's Cabin (upper)	4/29	44	13.5	11.9	10.3
Reynolds Park (A)					
Spirit Lake	4/27	63	23.3	18.3	15.5
Steel Creek Park	4/27	74	24.3	23.6	18.7
Trout Creek	4/29	51	15.9	12.4	--
Henrys Fork (A)				15.0	--
DUCHESNE RIVER					
Atwood Lake (A)					--
Brown Duck Ridge	4/29	90	30.8	31.3	20.2[a]
Chepeta	4/29	67	22.6	18.8	--
Currant Creek	4/28	27	10.6	5.5	2.3[b]
Daniels-Strawberry Summit	4/28	44	19.1	15.1	9.5
East Portal	4/29	40	15.0	10.5	4.4[b]
Five Points Lake (A)					--
Indian Canyon	4/27	53	19.7	12.0	10.9
Jackson Park	4/29	73	23.4	16.4	14.4[a]
Lakefork Basin (A)					--
Lakefork Mountain #1	4/29	59	15.9	14.7	11.9
Lakefork Mountain #3	4/29	22	7.6	0.0	2.1
Lightning Lake (A)					--
Mosby Mountain	4/29	55	15.1	11.2	9.9
Paradise Park	4/29	73	24.6	20.8	14.3
Rock Creek Ranch	4/29	22	6.6	2.3	1.3[b]
Strawberry Divide	4/29	58	23.9	22.2	12.2[a]
PRICE RIVER					
Dry Valley Divide Alternate	4/27	30	14.0		
Mud Creek	4/25	45	17.7	15.2	7.9
White River #1	4/27	41	16.5	15.7	10.5
White River #3	4/27	8	3.5	0.0	1.0[b]
SAN RAFAEL RIVER					
Buck Flat	4/25	71	29.6	24.2	15.4
Huntington-Horseshoe	4/25	106	45.0	28.0	--
Orange Olsen	4/25	0	0.0	0.0	--
Red Pine Ridge	4/25	65	27.2	20.2	14.8
Seeley Creek R.S.	4/25	76	31.0	19.6	17.2
Stuart R.S.	4/25	28	11.0	6.4	1.8
Upper Joe's Valley	4/25	39	14.9	10.0	5.7
Wrigley Creek	4/25	49	17.7	12.0	8.1
MUDDY RIVER					
Black's Fork	4/25	57	23.0	16.8	--
Dill's Camp	4/25	51	19.4	15.3	9.9[a]

PRECIPITATION (Inches)

DRAINAGE BASIN and/or SNOW COURSE NAME	CURRENT INFORMATION: Date of Reading	CURRENT INFORMATION: Month's Precipitation	CURRENT INFORMATION: Average †	FROM APPROX. OCT 1 TO DATE: This Year	FROM APPROX. OCT 1 TO DATE: Average †	FROM APPROX. OCT 1 TO DATE: Percent of Average
JORDAN RIVER & GREAT SALT LAKE						
Lamb's Canyon #2	4/27	3.94	--	22.41	--	--
Middle Canyon	5/1	5.20	4.28[b]		20.20	
Mill Creek						
Mill D South Fork						
Mt. Dell Dam						
Rock Basin-Settlement	4/28	5.20[a]	5.36[b]	41.97[a]	29.27	143
Silver Lake (Brighton)						
Snow Bird (Gad Valley)						
Vernon Creek			2.58[b]		17.85	
Deseret Peak						
COLORADO RIVER DRAINAGE						
UPPER GREEN RIVER - UTAH						
Ashley-Twin Lakes (A)						
Black's Fork G.S.-East Fork	4/27	4.02	3.35	16.54	15.29	108
Black's Fork Junction	4/27	3.53	3.08		14.70	
Buck Pasture (A)						
Burnt Creek	4/29	2.60	3.06[b]	13.40	12.07[b]	111
Grizzly Ridge	4/29	2.40	3.25[b]	21.40	16.69[b]	128
Hewinta G.S.	4/27	4.34	3.59	18.24	16.15	113
Hickerson Park			3.56[b]		12.97	
King's Cabin (upper)	4/29	2.26	2.95	17.63	14.58	121
Reynolds Park (A)						
Spirit Lake	4/27	4.43	4.94[b]	22.48	18.55	121
Steel Creek Park	4/27	2.56			16.63	
Trout Creek	4/29	2.74	--	19.91	--	--
Henrys Fork (A)						
DUCHESNE RIVER						
Atwood Lake (A)						
Brown Duck Ridge	4/29	4.04		23.67		
Chepeta						
Currant Creek	4/28	1.77	2.41[b]	18.15	16.20	112
Daniels-Strawberry Summit	4/28	3.01	3.28	24.39	21.09	116
East Portal	4/29	2.90		23.05		
Five Points Lake (A)						
Indian Canyon	4/27	2.92	2.68	21.63	15.46	140
Jackson Park	4/29	3.98		21.93		
Lakefork Basin (A)						
Lakefork Mountain #1	4/29	3.22	3.08	19.24	15.70	122
Lakefork Mountain #3						
Lightning Lake (A)						
Mosby Mountain	4/29	3.69	3.18[b]	21.58	15.18	142
Paradise Park	4/29	3.35	3.91		16.96	
Rock Creek Ranch	4/29	1.91	2.27	17.17	13.20	130
Strawberry Divide						
PRICE RIVER						
Dry Valley Divide Alternate						
Mud Creek	4/25	1.54	2.96		17.21	
White River #1	4/27	1.39	2.84	19.35	16.06	120
White River #3						
SAN RAFAEL RIVER						
Buck Flat	4/25	2.99	3.24	27.03	20.45	132
Huntington-Horseshoe						
Orange Olsen	4/25	0.80	1.13[b]	13.08	8.53	153
Red Pine Ridge	4/25	2.58	3.60	26.76[a]	23.39	114
Seeley Creek R.S.						
Stuart R.S.	4/25	1.59	2.15	15.52	13.77	113
Upper Joe's Valley						
Wrigley Creek						
MUDDY RIVER						
Black's Fork						
Dill's Camp	4/25	2.76	--	23.34	--	

† 1958-1972 period

USDA-SCS-PORTLAND, OR 1977 M7-0-22027 D

SNOW

DRAINAGE BASIN and/or SNOW COURSE NAME	THIS YEAR			PAST RECORD		PRECIPITATION (Inches) CURRENT INFORMATION			FROM APPROX OCT 1 TO DATE		
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches) Last Year	Water Content (inches) Average †	Date of Reading	Month's Precipitation	Average †	This Year	Average †	Percent of Average
FREMONT RIVER											
Black's Flat-U.M. Creek	4/26	43	16.9	11.8	8.8	4/26	2.64	2.65	16.12	14.75	109
Fish Lake	4/26	40	15.8	7.0	5.4	4/26	1.93	2.16	13.53	11.34	119
Johnson Valley	4/26	31	11.9	6.1	4.4						
SOUTHEASTERN UTAH DRAINAGES											
Buckboard Flat	4/29	50	19.2	2.1	7.1	4/29	4.10	2.75	27.35	20.89	131
Camp Jackson	4/29	52	20.8	1.6	5.8	4/29	2.35	2.42	29.55	19.20	154
LaSal Mountain (lower)	4/30	48	17.4	0.0	4.3						
LaSal Mountain (upper)	4/30	78	29.2	8.2	12.6	4/30	4.20	2.99	30.25	17.17	176
Monticello City Park	4/30	0	0.0								
UPPER SEVIER RIVER (South of Richfield, Utah)											
Box Creek	4/26	59	24.0	15.2	12.1	4/26	4.20	2.99	24.23	16.88	144
Bryce Canyon	4/26	17	6.2	0.0	--						
Castle Valley	4/26	56	25.3	11.1	7.2	4/26	2.19	3.24	27.07	17.13	158
Duck Creek R.S.	4/26	63	27.3	12.0	7.8	4/26	1.97	3.11	36.25	19.64	185
Harris Flat	4/26	29	11.3	0.0	2.1	5/1	1.70[a]		19.80[a]		
Kimberly Mine	4/27	68	28.5	17.7	15.8	4/27	4.59	4.44[b]	31.58	22.61	140
Midway Valley	4/26	112	47.2	23.4	21.5	4/26	6.00[a]		49.10[a]		
Panguitch Lake	4/26	29	12.4	0.0	0.8	4/26	1.39	1.50	16.70	9.39	178
Squaw Springs	4/26	36	12.8	7.2	4.6						
LOWER SEVIER RIVER (Including San Pitch River)											
Beaver Dams	4/25	38	16.6	7.2	7.4	4/25	3.22	3.27	24.50	16.34	150
Farnsworth Lake	4/26	77	31.3	22.6	22.2	4/26	4.16	4.69	28.73	24.25	118
G.B.R.C. Headquarters	4/25	69	28.1	17.1	16.1	4/25	3.40	4.26	29.40	22.55	130
G.B.R.C. Majors								2.15[b]		10.66	
G.B.R.C. Meadows	4/25	99	40.4	31.7	25.1	4/25	4.17	5.17	32.74	26.84	122
G.B.R.C. Oaks								3.01		14.88	
Gooseberry R.S.	4/26	38	16.6	10.4	10.2	4/26	3.04	3.61	20.84	16.52[b]	126
Mammoth-Cottonwood Creek	4/25	79	35.2	27.4	19.1	5/25	1.90[a]		24.55[a]		
Mt. Baldy R.S.	4/25	105	41.0	31.3	24.2	4/25	6.98	3.93	29.23	20.83	140
Oak Creek	4/27	63	26.9	8.2	9.6[b]	4/27	3.60	3.83[b]	25.61	19.79[b]	129
Pickle Keg Springs	4/25	65	26.1	17.2	15.1[b]	5/1	3.60[a]		32.04[a]		
Pine Creek	4/27	76	34.8	12.6	13.6	4/27	5.76	5.88	36.09	29.35	123
Ree's Flat	4/27	53	23.5	14.0	--	4/27	2.00		26.28		
Shingle Mill	4/28	25	9.6	0.0	3.2[b]	4/28	3.30	3.87[b]	26.06	19.55	133
Gooseberry Reservoir						4/25	2.48	3.60	29.63	21.71	136
BEAVER RIVER											
Beaver Canyon Power House											
Beaver Race Track											
Big Flat	4/27	98	36.6	25.4	18.6	4/27	3.36	3.47	28.62	19.00	151
Merchant's Valley (upper)	4/27	51	20.7	7.3	5.9[b]	4/27	3.74	2.96[b]	27.53	17.21	160
Otter Lake	4/27	76	28.4	18.9	12.1						
PAROWAN CREEK											
Birch Crossing	4/26	23	9.2	0.0	2.5[b]						
Brian Head	4/26	84	34.4	23.8	20.8[b]						
Tall Poles	4/26	55	22.0	13.2	12.3[b]	4/26	3.60	3.48[b]	24.55	18.37[b]	134
Yankee Reservoir	4/26	42	19.3	7.8	7.0	4/26	2.90	3.01	20.26	15.14	134
ENTERPRISE TO NEW HARMONY DRAINAGES											
Little Grassy Creek	4/26	0	0.0	0.0	0.2	4/26	2.98	1.80	28.08	16.29	172
Long Flat	4/26	29	13.1	0.0	2.3	4/26	2.40	2.27	23.64[a]	13.90	170
COAL CREEK											
Cedar City Golf Course	4/26	0	0.0	0.0	--						
SUSC Ranch	4/27	41	15.8	0.0	2.5[b]						

USDA-SCS-PORTLAND, OR 1977 M7-0-22027 0

† 1958-1972 period

SNOW

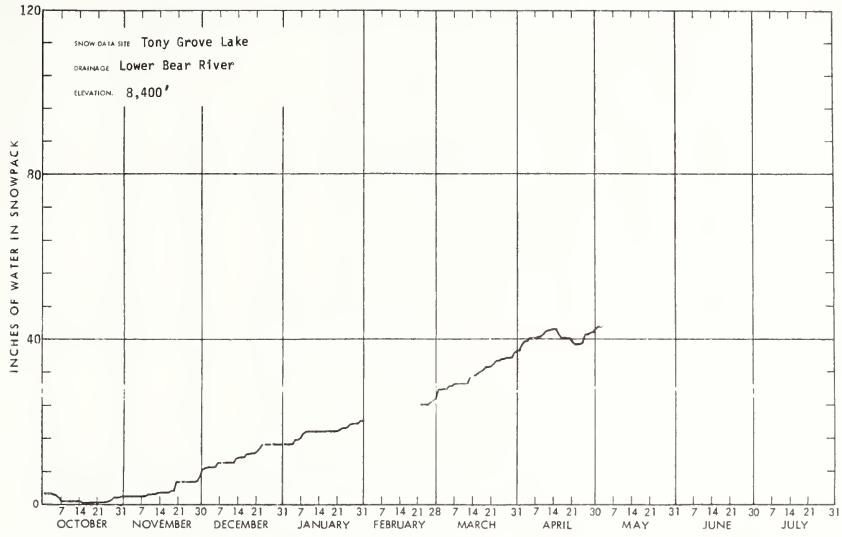
DRAINAGE BASIN and/or SNOW COURSE NAME	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
				Last Year	Average +
ESCALANTE RIVER					
Widtsoe-Escalante #3	4/26	53	21.4	12.2	9.0
VIRGIN RIVER					
Kolob-Crystal	4/26	102	46.0	21.4	22.5[a]
Long Valley Junction	4/26	0	0.0	0.0	--
Webster Flat	4/26	82	38.2	21.1	13.8

PRECIPITATION (Inches)

CURRENT INFORMATION			FROM APPROX OCT 1 TO DATE		
Date of Reading	Month's Precipitation	Average +	This Year	Average +	Percent of Average
4/26	0.98	3.14	20.22	15.21	133
4/26	2.78	3.81	41.98[a]	23.08	182

a - Partly Estimated
b - Average of past record in average period - less than 15 years
+ - 1963-77 15 year average period
(A) - Aerial Marker Reading

WSFB-K13A



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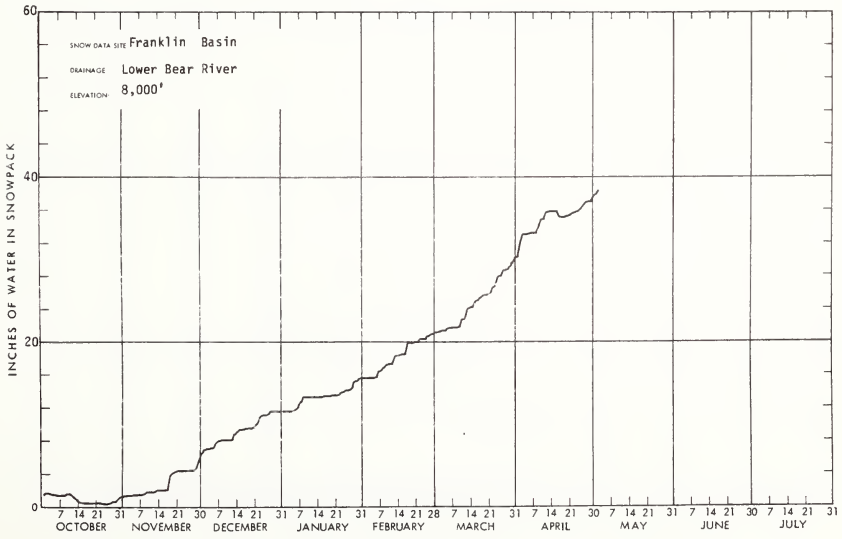

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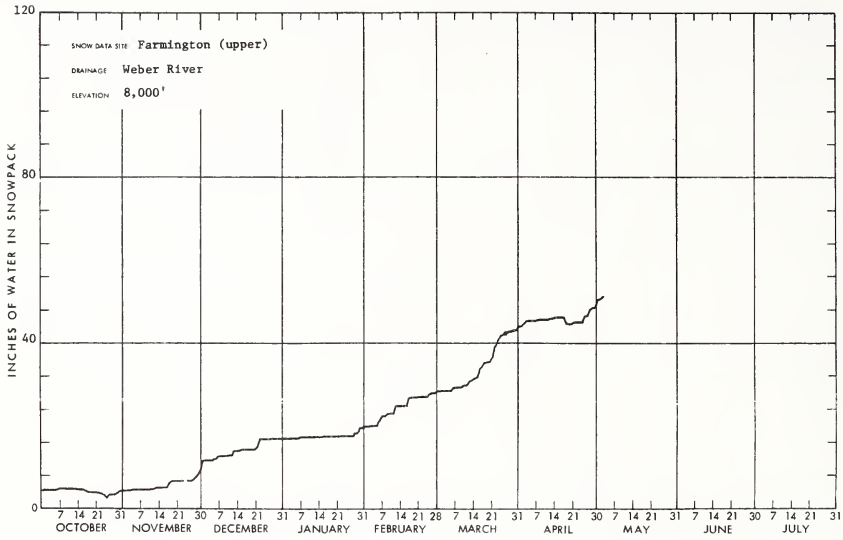

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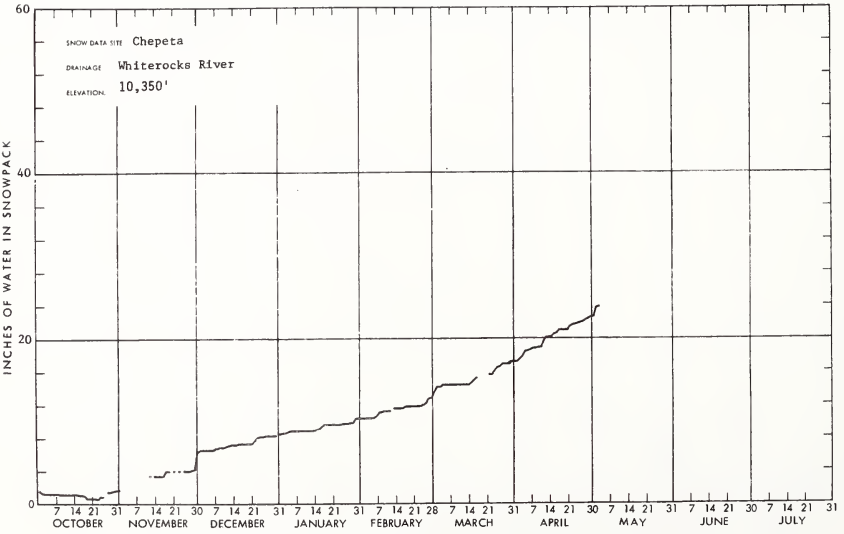

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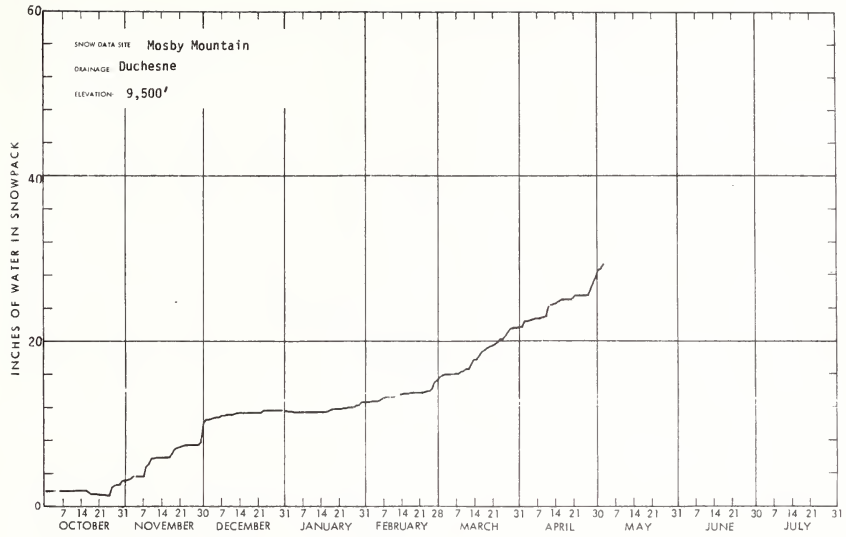

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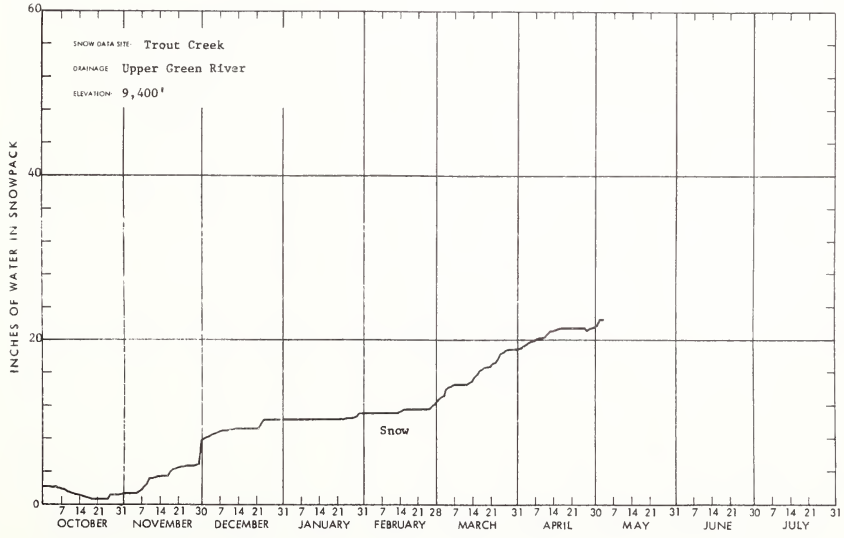

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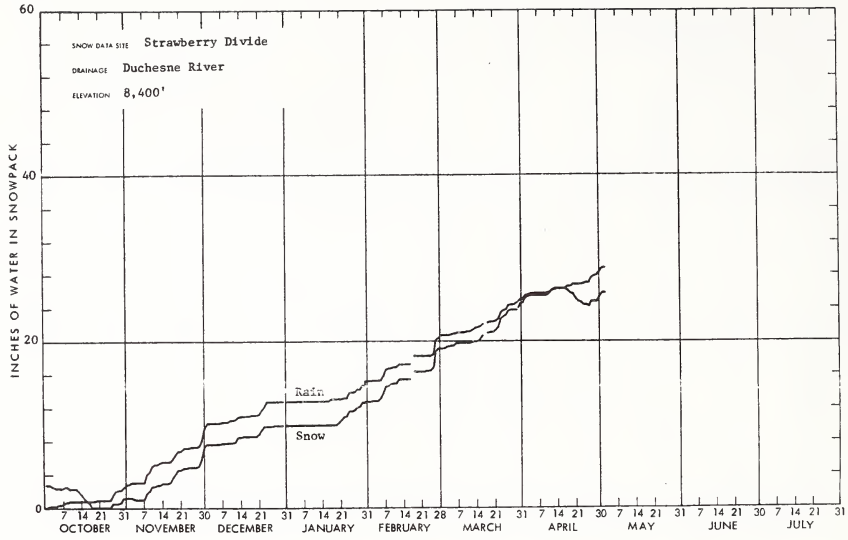

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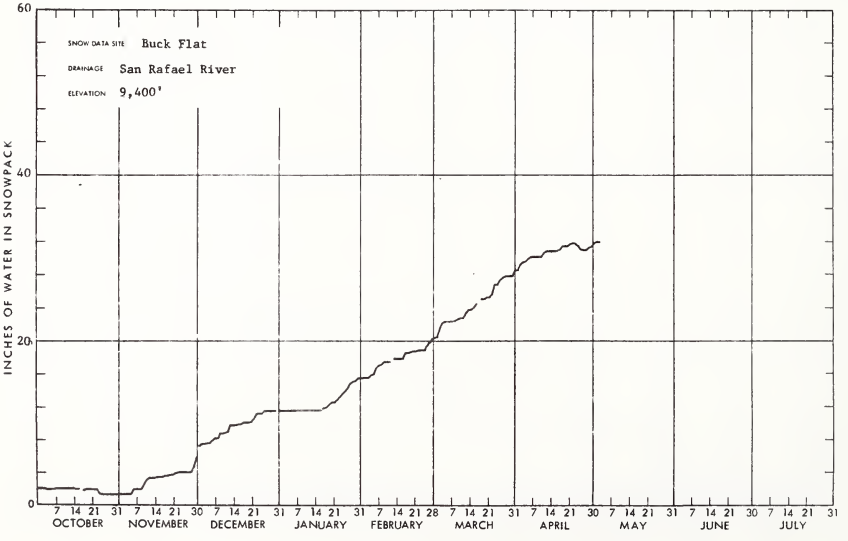
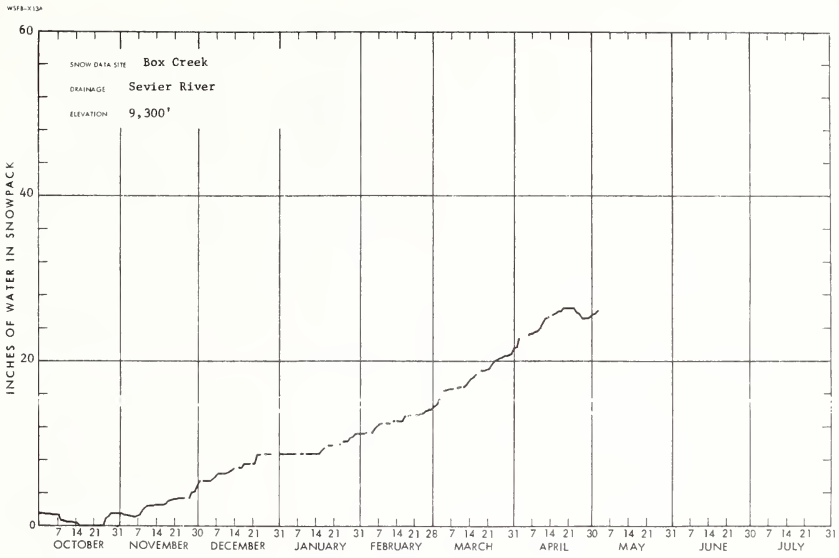
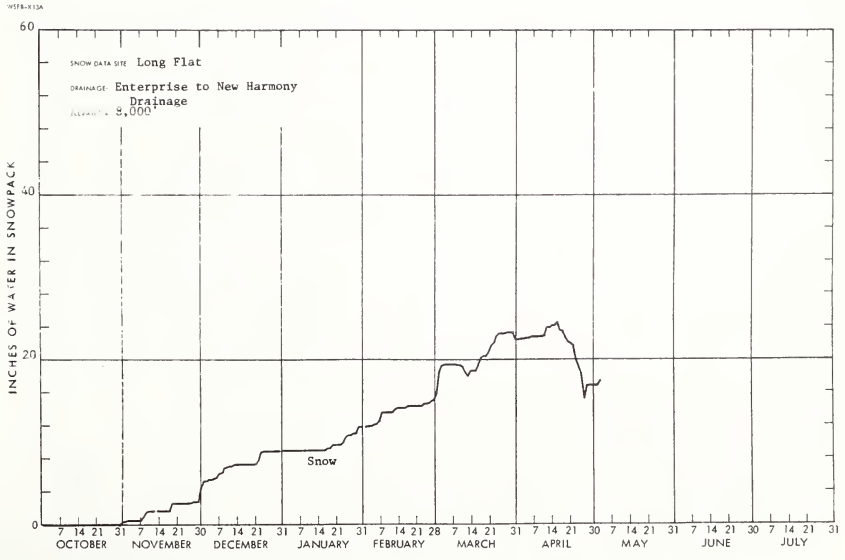



WSFB-X13A
SNOW DATA SITE Box Creek
DRAINAGE Sevier River
ELEVATION 9,300'
INCHES OF WATER IN SNOWPACK
60
40
20
0
7 14 21 31 7 14 21 30 7 14 21 31 7 14 21 31 7 14 21 28 7 14 21 31 7 14 21 30 7 14 21 31 7 14 21 30 7 14 21 31
OCTOBER NOVEMBER DECEMBER JANUARY FEBRUARY MARCH APRIL MAY JUNE JULY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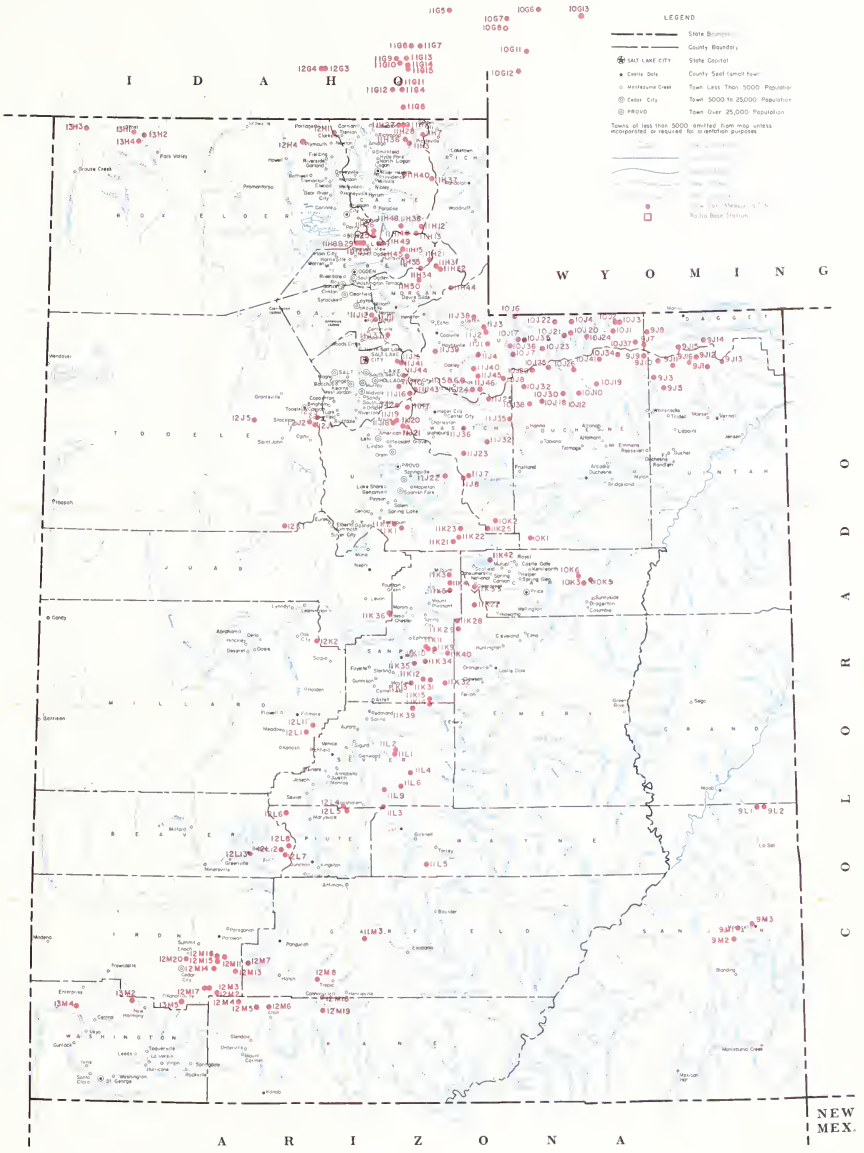
SNOW DATA SITE Long Flat
DRAINAGE Enterprise to New Harmony Drainage
ELEVATION 8,000'
INCHES OF WATER IN SNOWPACK
60
40
20
0
Snow
7 14 21 31 7 14 21 30 7 14 21 31 7 14 21 31 7 14 21 28 7 14 21 31 7 14 21 30 7 14 21 31 7 14 21 30 7 14 21 31
OCTOBER NOVEMBER DECEMBER JANUARY FEBRUARY MARCH APRIL MAY JUNE JULY



SNOW COURSES AND RELATED DATA MEASURING SITES

UTAH

1981

USGS National Atlas 1:1,000,000 Albers Equal-Area projection (1967) used as source for base map and adopted for SCS use.

SCALE 1 : 1,000,000

ALBERS EQUAL AREA PROJECTION

INDEX TO UTAH, BEAR & UPPER COLORADO RIVER BASINS

GREAT BASIN DRAINAGE

UPPER BEAR RIVER (above Harer, Idaho)

NO	STATE	NAME	SEC	TWP	RGE	ELEV
10G11	W	Big Park	7	27N	117W	8,700
10J6P	U	Burts-Miller Ranch	19	3N	10E	7,900
10G7	W	CCC Camp x	9	29N	118W	7,500
10J36p	U	Gold Hill	15	1N	9E	10,000
10J7PST	U	Hayden Fork	25	1N	9E	9,400
10G12	W	Kelly Ranger Station	13	26N	118W	8,200
10J35p	U	Lily Lake	34	2N	10E	9,050
11H12PST	U	Monte Cristo R.S.	4	8N	4E	8,960
10G6	W	Poison Meadows x	29	30N	116W	8,500
10G8P	W	Salt River Summit x	32	29N	118W	7,900
10G13MP	W	Snyder Basin x	15	29N	115W	8,400
10J17P	U	Stillwater Camp	32	2N	10E	8,550

LOWER BEAR RIVER (below Harer, Idaho)

11H37pST	U	Bug Lake	18	11N	5E	7,950
11G11	I	Christensen Ranch	27	13S	41E	5,600
11H38p	U	Cinnamon Creek	5	8N	3E	7,300
12H1p	U	Clarkston Mountain	29	14N	2W	6,300
11G12	I	Cub River Ranger Station	5	15S	41E	5,400
11G14a	I	Dry Basin	30	13S	42E	7,900
12G4	I	Dry Creek Flat	31	13S	37E	6,350
11G6	I	Emigrant Summit	21	12S	42E	7,350
11G7	I	Emigrantian Canyon (mouth)	24	12S	42E	6,500
11G8MPST	I	Franklin Basin	1	16S	41E	8,000
11H7MP	U	Garden City Summit	34 & 35	14N	4E	7,600
11H40p	U	Herd Hollow	3	11N	3E	7,200
11G15a	I	Horseshoe Basin	31	13S	42E	8,000
11H1MP	U	Klondike Narrows	10	14N	3E	7,400
11G13	I	Liberty Springs	7	13S	42E	8,240
11H26	U	Little Bear (lower)	16	8N	1E	6,000
11H25PST	U	Little Bear (upper)	22	8N	1E	6,350
12G3	I	Oxford Mountain	32	13S	37E	6,900
11G5	I	Slug Creek Divide	15	10S	44E	7,225
11H27	U	Steep Hollow #1	7	14N	3E	8,500
11H28	U	Steep Hollow #2	9	14N	3E	7,700
11G9	I	Strawberry Creek	9	13S	41E	5,800
11G10	I	Strawberry Mink Divide	14	13S	41E	6,800
11H36PST	U	Tony Grove Lake	5	13N	3E	8,400
11H3MP	U	Tony Grove Ranger Station	11	13N	3E	6,250
11G4P	I	Willow Flat	2	15S	41E	6,100

RAFT RIVER

13H2o	U	Clear Creek Meadows	26	14N	14W	9,050
13H4PS	U	George Peak	4	13N	14W	9,000
13H1	U	One Mile Summit	17	14N	14W	7,330
13H3a	U	VIPont	17	14N	17W	7,670

OGDEN RIVER

11H14M	U	Beaver Creek-Skunk Creek	22	8N	3E	7,150
11H8PST	U	Ben Lomond Peak	3	7N	1W	8,000
11H30PST	U	Ben Lomond Trail	2	7N	1W	6,000
11H35p	U	Causey Dam	34	7N	3E	5,500
11H13MPST	U	Dry Bread Pond	19	8N	4E	8,350
11H34p	U	Guilder's Peak	21	6N	4E	8,050
11H45p	U	Middle Fork Ogden	16	7N	2E	8,420
11H4P	U	Powder Mountain Hideaway	6	7N	2E	8,250
11H48	U	Powder Mountain Sundown	1	7N	1E	8,400
11H15P	U	Sagebrush Flat	21	7N	3E	6,300

WEBER RIVER

11J24	U	Beaver Creek R.S.	28	2S	7E	7,500
11J1PST	U	Chalk Creek #1	4	1N	8E	9,100
11J2MPST	U	Chalk Creek #2	29	2N	8E	8,200
11J3MP	U	Chalk Creek #3	7	2N	8E	7,500
11J4Sp	U	East Shingle Lake	6	2S	8E	9,750
11J12P	U	Farmington Canyon (lower)	15	3N	1E	6,950
11J1PST	U	Farmington Canyon (upper)	23	3N	1E	8,000
11H4p	U	Francis Canyon	29	5N	6E	7,400
11J37p	U	Hardscrabble	22	2N	2E	6,700
11H2 IPST	U	Hane Ridge	25	7N	4E	8,260
11H31	U	Kilfoil Creek	20	6N	5E	7,300
11H32P	U	Lost Creek	27	6N	5E	7,300
11J43	U	Park City Summit	30	2S	4E	9,300
11J15PST	U	Porley's Canyon Summit	5	1S	3E	7,500
11H50	U	Pine Canyon	6	5N	4E	8,000
11J38p	U	Porcupine	22	3N	7E	8,100
11J6	U	Redden Mine (lower)	1	2S	6E	8,500
11J5P	U	Redden Mine (upper)	1	2S	6E	9,000
11J39po	U	Sergeant Lakes	9	1N	6E	8,300
11J40p	U	Shingle Mill Flat	22	1S	7E	9,040
11J4PST	U	Smith & Morehouse	25	1N	7E	7,600

PROVO RIVER & UTAH LAKE

11J46PST	U	Beaver Creek Divide	25	2S	7E	8,280
11J20	U	Camp Altamont	29	4S	3E	7,300
11K2IPST	U	Clear Creek Ridge #1	18	11S	6E	9,200
11K22PST	U	Clear Creek Ridge #2	9	11S	6E	8,000
11K23	U	Clear Creek Ridge #3	27	10S	6E	6,600
11J17P	U	Dutchman R.S.	27	3S	3E	7,560
11J22P	U	Hobble Creek Summit	27	7S	5E	7,420
11J36P	U	Lake Creek	36	4S	4E	9,000
11K1P	U	Poyson R.S.	30	10S	3E	8,050
11K2	U	Rock Bridge	14	10S	2E	6,750

PROVO RIVER & UTAH LAKE (continued)

NO	STATE	NAME	SEC	TWP	RGE	ELE
11J25P	U	Soapstone R.S.	9	3S	8E	7,800
11J19	U	South Fork R.S.	24	4S	2E	6,100
11J1B	U	Timpanogas Cave Camp	27	4S	2E	5,500
11J21PST	U	Timpanogas Divide	33	4S	3E	8,140
10J8PST	U	Trial Lake	5	2S	9E	9,960

JORDAN RIVER & GREAT SALT LAKE

12J2	U	Bevan's Cabin	24	4S	4W	6,450
12J5P	U	Deseret Peak	15	4S	7W	9,250
11J41P	U	Lamb's Canyon #2	21	1S	3E	7,500
12J3P	U	Middle Canyon	8	4S	3W	7,000
11J44	U	Mill Creek	25	1S	2E	6,950
11J10	U	Mill South Fork	18	2S	3E	7,400
12J1P	U	Rocky Basin-Settlement Canyon	30	4S	3W	8,900
11J16P	U	Silver Lake (Brighton)	35	2S	3E	8,725
11J42	U	Snow Bird (Red Valley)	18	3S	3E	9,700
12K1PST	U	Vernon Creek	21	10S	5W	7,500

UPPER SEVIER RIVER (South of Richfield, Utah)

12L4PST	U	Box Creek	33	26S	2W	9,300
12M8	U	Bryce Canyon	36	36S	4W	8,000
12M13PST	U	Castle Valley	23	36S	8W	9,580
12M4P	U	Duck Creek R.S.	11	38S	8W	8,700
12M1B	U	Farview	32	37S	4W	8,200
12M5PST	U	Harris Flat	24	38S	7W	7,700
11L9p	U	High-Top Mountain	36	25S	1E	11,400
12L6PST	U	Kimberly Mine	11	27S	5W	9,300
12M2MPST	U	Midway Valley	26	37S	9W	9,800
12M7P	U	Panguitch Lake	4 & 5	36S	7W	8,200
12M19	U	Rainbow Point	29	38S	4W	9,100
12L5	U	Squaw Springs	3	27S	2W	9,300

LOWER SEVIER RIVER (Including San Pitch River)

11K13P	U	Beaver Dam	22	19S	3E	8,000
11L1PST	U	Farnsworth Lake	34	23S	2E	9,600
11K11P	U	G.B.R.C. Headquarters	21	17S	4E	8,700
11K10P	U	G.B.R.C. Meadows	27	17S	4E	10,000
11L2PST	U	Gooseberry R.S.	21	23S	2E	8,000
11K3MPST	U	Mammoth R.S.-Cottonwood Creek	13	13S	5E	8,800
11K34	U	Middle Fork	16	18S	4E	9,600
11K12P	U	Mt. Baldy R.S.	19	19S	4E	9,500
12K2P	U	Oak Creek	9	27S	3W	7,760
11K39PST	U	Pickle Keg Springs	4	21S	3E	9,000
12L1PS	U	Pine Creek	24	22S	4W	8,700
11K36	U	Rees's Flat	20	15S	2E	7,500
12L11P	U	Shingle Mill	5	22S	3W	6,200
11K3S	U	Thistle Flat	19	18S	3E	8,760

BEAVER RIVER

12L13	U	Beaver Race Track	23	29S	7W	6,020
12L7PST	U	Big Flat	7	29S	4W	10,290
12L12PST	U	Merchant's Valley (upper)	8	29S	5W	8,750
12L8	U	Otter Lake	12	29S	5W	9,600

PAROWAN CREEK

12M16	U	Birch Crossing	23	35S	9W	8,100
12M14	U	Brian Head	10	36S	9W	10,000
12M13P	U	Tall Pines	26 & 35	35S	9W	8,800
12M11P	U	Yankee Reservoir	20	35S	8W	8,700

ENTERPRISE TO NEW HARMONY DRAINAGES

13M4MP	U	Little Grassy Creek	14	38S	18W	6,100
13M2MPST	U	Long Flat	2	38S	14W	8,000

COAL CREEK

12M20	U	Cedar City Golf Course	11	36S	11W	5,800
12M17	U	SUSC Ranch	18	37S	9W	8,200

COLORADO RIVER DRAINAGE

UPPER GREEN RIVER IN UTAH (above Duchesne River)

9J11oP	U	Ashley Twin Lakes	20	1S	19E	10,500
10J21P	U	Black's Fork G.S.-East Fork	25	2N	12E	9,300
10J22P	U	Black's Fork Junction	33	3N	12E	8,925
10J23a	U	Buck Pasture	2	1N	11E	9,700
9J14P	U	Burnt Creek	4	1N	20E	7,900
9J13P	U	Grizzly Ridge	8	1S	22E	8,500
10J24op	U	Henry's Fork	29	2N	14E	10,000
10J4P	U	Hewinta G.S.	33	3N	12E	9,500
9J8P	U	Hickerson Park	13	2N	17E	9,100
9J15p	U	Highline Trail	24	1N	19E	10,250
10J1	U	Hole-in-the-Rock	13	2N	15E	9,150
10J3	U	Hole-in-the-Rock G.S.	32	3N	16E	8,300
9J11P	U	King's Cabin (upper)	22	1S	21E	8,730
10J37p	U	McCoy Park	6	1N	17E	10,680
10J12	U	Middle Beaver Creek	31	3N	16E	8,650
9J10aP	U	Reynolds Park	9	1S	18E	10,400
9J7P	U	Spirit Lake	10	1N	17E	10,300
10J20PST	U	Steel Creek Park	17	2N	13E	10,100
9J16PST	U	Trout Creek	9	1S	20E	9,400
9J12op	U	Windy Park	2	1S	20E	9,400

DUCHESNE RIVER

10J41op	U	Atwood Lake	13	4N	4W	10,840
10J30PST	U	Brown Duck Ridge	8	2N	6W	10,600
10J9P	U	Chepeta-Whiterocks Lakes	3	4N	1W	10,350
11J32MPST	U	Currant Creek	26	1S	11W	8,000
11J23MPST	U	Daniels-Strawberry Summit	20	2S	12W	8,000
11J2P	U	East Portal	36	7S	6E	7,560
10J26ap	U	Five Point Lake	28	4N	5W	11,000
10K1PST	U	Indian Canyon	2	11S	10E	9,100
10J19P	U	Jackson Park	25	3N	4W	10,600
10J34p	U	Kidney Lake	28	5N	3W	11,000
10J25op	U	Lakefork Basin	13	4N	7W	11,100
10J10PST	U	Lakefork Mountain	2 & 3	2N	5W	10,200
10J12	U	Lakefork Mountain #3	20	2N	4W	8,400
10J29ap	U	Lightning Lake	23	4N	6W	10,500
9J5PST	U	Mosby Mountain	33	3N	1E	9,500
9J5P	U	Paradise Park	7	3N	1E	10,100
10J18P	U	Rock Creek	21	2N	7W	7,900
10J32p	U	Shadow Lake	29	3N	8W	10,150
11J8PST	U	Strawberry Divide	2	4S	12W	8,400
11J35P	U	West Fork of the Duchesne	22	1N	11W	9,480

PRICE RIVER

10K5M	U	Corral	32	13S	14E	8,200
11K42P	U	Dry Valley Divide Alternate	14	11S	7E	8,100
10K3M	U	Grassy Trail Creek-Left Fork	1	14S	13E	7,970
11K33MP	U	Mud Creek	4	14S	7E	6,600
10K6	U	Timberline	23	13S	13E	9,100
10K2MPST	U	White River #1	11	10S	8E	8,550
11K25	U	White River #3	30	10S	8E	7,400

SAN RAFAEL RIVER

11K31PST	U	Buck Flat	23	19S	4E	9,400
11K4	U	Gooseberry Reservoir	25	13S	5E	8,700
11K5P	U	Huntington-Horsethoe	12	14S	5E	9,800
11K40P	U	Orange Olsen	31	17S	6E	7,200
11K28PST	U	Red Pine Ridge	5	16S	6E	9,200
11K19PST	U	Seeley Creek	25	17S	4E	10,000
11K27P	U	Stuart R.S.	8	15S	7E	7,950
11K29	U	Upper Joe's Valley	21	16S	6E	8,900
11K32	U	Wrigley Creek	27	17S	5E	9,000

MUDDY RIVER

11K14	U	Black's Fork	34	20S	4E	9,200
11K15PST	U	Dill's Camp	27	20S	4E	9,200

FREMONT RIVER

11L4P	U	Black's Flat-U.M. Creek	33	24S	3E	9,400
11L5	U	Donkey Reservoir	9	30S	4E	9,800
11L3P	U	Fish Lake	35	26S	1E	8,700
11L6	U	Johnson Valley	24	25S	2E	8,850

SOUTHEASTERN UTAH DRAINAGES

9M1P	U	Buckboard Flat	36	33S	22E	9,000
9M2P	U	Camp Jackson	22	34S	22E	8,600
9L1	U	LaSal Mountain	5	27S	24E	8,800
9L2P	U	LaSal Mountain (upper)	3	27S	24E	9,850
9M3	U	Monticello Park	25	33S	23E	7,050

ESCALANTE RIVER

11M3PST	U	Widtsoe-Escalante #3	22	34S	1W	9,500

VIRGIN RIVER

13M5PST	U	Kolob-Crystal	2	38S	11W	9,250
12M6	U	Long Valley Junction	22	38S	6W	7,500
12M3MPST	U	Webster Flat	20	37S	9W	9,200

LEGEND
Numbering System (example)

10J7 Snow Course Only
10J7P Snow Course and Precipitation Gage
10J7M Snow Course and Soil Moisture Station
10J7A Snow Course and Aerial Marker
10J7MA Snow Course, Soil Moisture Station and Aerial Marker
10J7MP Snow Course, Soil Moisture Station and Precipitation Gage
10J7a Aerial Marker Only
10J7p Storage Precipitation Gage Only.
10J7PS Snow Course, Precipitation Gage, Snow Pillow and Temperature
10J7PST Sipoet Data Site

(DETACH HERE)

IMPORTANT NOTICE

WATER SUPPLY OUTLOOK FOR UTAH

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